

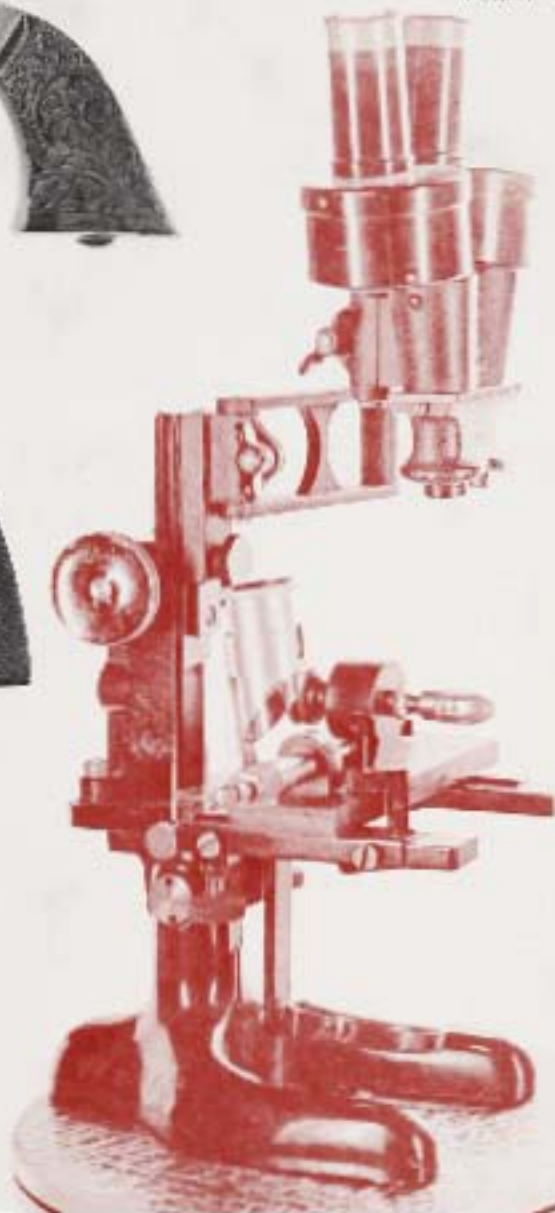
J. Howard Mathews

# Firearms Identification

VOLUME **III** Original photographs and other illustrations of hand  
guns. Data on rifling characteristics of hand guns and rifles

*Published Posthumously with the Editorial Assistance of  
ALLAN E. WILIMOVSKY, Firearms Identification Specialist, Wisconsin  
Department of Justice Crime Laboratory Bureau  
Madison, Wisconsin*

*Volume III of Three Volumes*





The "real work" of this posthumously published third volume was all done by Dr. J. H. Mathews. All that was necessary at the time of his death was to mount the photographs and complete the editorial work of pulling the book together for publication.

The third volume contains additional data for many makes and models for which data on other specimens were given in Volume I. Also, much previously unavailable data on rifles is presented along with data for many handguns not before encountered. Photographs of many previously unphotographed handguns have been included as well as photographs of guns in partially disassembled condition giving a better view of their construction and operation.

In PART I of Volume III, tables are presented on rifling characteristics of automatic pistols, revolvers and nonautomatic pistols and rifles. As an aid to identification, material has been organized into tables, arranged by caliber, number of grooves and direction of twist.

Since, as the author pointed out, the firearms examiner may often be concerned with arms of older vintage, there is an extensive discussion in PART II of less well known American made hand guns from the period 1850 to 1910.

In Section 1 of PART III are found original photographs of automatic pistols, arranged by caliber. In Section 2 are disassembled views of many of the guns shown in Section 1.

PART IV contains original photographs of revolvers and nonautomatic pistols, arranged by caliber. Several illustrations of handguns from catalogs and other sources are provided in PART V. A large number of additional photographs of firing pin impressions on rim fire cartridges, generally .22 caliber, appear in PART VI. Finally, PART VII presents many photographs of trade marks and other identification marks found on handguns.

*continued on back flap*





# FIREARMS IDENTIFICATION



J. HOWARD MATHEWS

# Firearms Identification

VOLUME **III** Original photographs and other illustrations of hand

guns. Data on rifling characteristics of hand guns and rifles

*Published Posthumously with the Editorial Assistance of*

ALLAN E. WILIMOVSKY, *Firearms Identification Specialist, Wisconsin  
Department of Justice Crime Laboratory Bureau  
Madison, Wisconsin*

CHARLES C THOMAS • PUBLISHER  
*Springfield • Illinois • U.S.A.*

*Published and Distributed Throughout the World by*  
CHARLES C THOMAS • PUBLISHER  
BANNERSTONE HOUSE  
301-327 East Lawrence Avenue, Springfield, Illinois, U.S.A.

This book is protected by copyright. No  
part of it may be reproduced in any manner  
without written permission from the publisher.

© 1973, by CHARLES C THOMAS • PUBLISHER

ISBN 0-398-02357-3

Library of Congress Catalog Card Number: 71-180107

*With THOMAS BOOKS careful attention is given to all details of  
manufacturing and design. It is the Publisher's desire to present books  
that are satisfactory as to their physical qualities and artistic possibilities  
and appropriate for their particular use. THOMAS BOOKS will be true  
to those laws of quality that assure a good name and good will.*

*Printed in the United States of America*

*Composed by Rose Printing Company, Tallahassee, Florida  
and printed by Meriden Gravure Company, Meriden, Connecticut*

# Introduction

**T**he gratifying sales reception of my two-volume treatise *Firearms Identification*, the excellent reviews it has had in this and foreign countries, and hundreds of flattering personal letters, many from total strangers, have encouraged me to continue my investigations and to present the results in this additional volume.

Since the publication of my treatise in 1962 many additional measurements of the rifling characteristics of hand guns have been made. Earlier studies demonstrated the desirability (or necessity) of making as many measurements of rifling characteristics as possible on the same make and model of firearm to ascertain whether uniformity for a given make and model may or may not be expected and also to detect changes in rifling characteristics which are sometimes deliberately made by the manufacturer. Consequently, in the tabulations in this volume, additional data will be found for many makes and models for which data on other specimens were given in Volume I. There are also data for many hand guns, not previously encountered, and for a considerable number of rifles, for which no data were given previously.

Many additional photographs of hand guns have been taken. These include many arms not previously

photographed. A large number have been photographed in a partially disassembled condition to give a better idea of their construction and operation. Such photographs are frequently of value in making the identification of the manufacturer. Variations in the same nominal model will be noted.

A very large number of additional photographs of firing pin impressions on rim fire cartridges appear in this volume. Unless otherwise stated, all of these are on .22 caliber ammunition.

The section of Volume II devoted to photographs of trade marks and other identification marks (Part VI) was found to be of interest; therefore a number of new photographs of such marks have been included in the present volume.

While it is true that the firearms examiner is more likely to be concerned with arms made in recent years, occasions do arise in which arms of considerably older vintage are encountered, and information concerning them is often not so readily available. Furthermore, there is a growing interest among collectors and other "gun men" in these older and less well known arms. For these reasons a sizeable section in this volume is devoted to notes on American made hand guns of approximately the last half of the last century.



# Acknowledgment

My sincere thanks are due to the many individuals, too numerous to mention by name, who have brought or sent firearms to my laboratory for study. To them I owe much gratitude which I again wish to express.

I also again express my thanks to the Milwaukee Public Museum for the loan of a very large number of revolvers and pistols from the famous Nunne-macher Collection. Much valuable information was obtained from them and from the publications of the Museum.

I am greatly indebted to Charles E. Shomber for the loan of his large collection of "spur trigger" revolvers and pistols, and also of his complete files of material relating to these and other early hand guns.

I am especially indebted to Stanton O. Berg, who has furnished me with hundreds of fired rim-fire cases to photograph, and to Clark E. Kauffman, who furnished me sets of fired cases from all of the rim-fire arms in his large and unique collection.

Mr. Vaclav J. Krcma has been extremely helpful

in supplying me with a large number of photographs of automatic pistols and revolvers, many of which are of makes and models that were inaccessible to me; consequently I am very grateful to him for his assistance.

I also express my appreciation for the loan of pistols from the fine collections of Clark E. Kauffman, John R. Carlson, Daniel M. Byrne, Ernest J. Lang, John Remling, and many, many others whose contributions from less extensive collections have been very gratefully received.

Through the generous cooperation which I have received for many years from the staff of the Wisconsin State Crime Laboratory I have had an opportunity to examine and measure the rifling characteristics of many hundreds of hand guns and rifles, to photograph many hand guns (assembled and partially disassembled), and to photograph firing pin impressions made on cases fired in hundreds of rim-fire hand guns and rifles.

J. H. M.



It is unfortunate that Dr. Mathews could not have lived to realize the publication of this third volume of his work. He died on April 15, 1970. The preparation of the completed manuscript for publication has been carried out by Dr. Mathews' family, with the very valuable assistance and counsel of Mr. Allan Wilimovsky.

THE FAMILY OF  
DR. J. HOWARD MATHEWS

*Madison, Wisconsin*



# Contents

*Volume III of three volumes*

|                |     |
|----------------|-----|
| Introduction   | v   |
| Acknowledgment | vii |

## PART I, Measurements of rifling characteristics

|                                           |   |
|-------------------------------------------|---|
| <i>Chapter 1. Additional measurements</i> | 3 |
|-------------------------------------------|---|

### *Section*

|                                                                          |    |
|--------------------------------------------------------------------------|----|
| i. Tables of rifling measurements on automatic pistols                   | 4  |
| ii. Tables of rifling measurements on revolvers and nonautomatic pistols | 18 |
| iii. Tables of rifling measurements on rifles                            | 31 |

|                                             |    |
|---------------------------------------------|----|
| <i>Chapter 2. Tables of rearranged data</i> | 42 |
|---------------------------------------------|----|

### *Section*

|                                                                                                                                                              |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| i. Rifling data for automatic pistols, arranged by caliber,<br>number of grooves, and direction of twist                                                     | 43 |
| ii. Rifling data for revolvers and nonautomatic pistols, arranged by caliber, number of grooves,<br>and direction of twist                                   | 47 |
| iii. Rifling data for rifles, arranged by caliber, number of grooves, and direction of twist                                                                 | 54 |
| iv. Rifling data for revolvers and nonautomatic pistols appearing in Table 17 of Volume I, arranged by<br>caliber, number of grooves, and direction of twist | 61 |

## PART II, Notes on some less well-known American revolvers and pistols (Principally for the period 1850 to 1910)

### *Section*

|                            |    |
|----------------------------|----|
| i. Introductory discussion | 67 |
| ii. Notes                  | 71 |



PART I

Measurements of  
rifling characteristics



# Additional Measurements

In addition to the extensive tables of data for the measurements of the rifling characteristics of hand guns which are set forth in Volume I, a large number of similar measurements have subsequently been made in this laboratory, both on makes and models previously measured and particularly on a considerable number of makes and models not previously measured.

It is of course desirable to have as many measurements as possible for each make and model (a) to ascertain how uniform the rifling is from specimen to specimen and (b) to detect changes in rifling characteristics which the manufacturer has intentionally made. Many manufacturers do make such changes from time to time, and it is important that the examiner know about them. Some manufacturers have specifications for rifling which they

follow reasonably well, but others do not. Indeed, from the variations one frequently finds in arms produced by some manufacturers one wonders whether any such specifications exist!

Volume I contained no data for measurements made on rifles because relatively few such measurements had been made. In the meantime, many measurements on rifles have been accumulated, and these data are recorded here. (It must be noted here that these measurements made on rifles were made using the same techniques and instruments used for those made upon hand guns and described in detail in Volume I; therefore, only a limited portion of the barrel length could be measured. Where possible, measurements were taken from both ends of the barrel, but in many instances only the first several inches at the muzzle end could be reached.)

# Firearms identification

## Section I

### Tables of rifling measurements on automatic pistols

TABLE 1  
Rifling measurements on automatic pistols

| Manufacturer                                                              | Model (or Name)                                        | Serial No.   | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                                       |
|---------------------------------------------------------------------------|--------------------------------------------------------|--------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|---------------------------------------------------------------|
| <b>Caliber: .22</b>                                                       |                                                        |              |                      |                        |                    |                     |               |                  |                                                               |
| Astra-Unceta y Cia.,<br>Guernica, Spain                                   | Astra 2000                                             | 55538        | L                    | 9.3                    | 6                  | .040                | .2130         | .2195            |                                                               |
|                                                                           | "                                                      | 58545        | L                    | 9.4                    | 6                  | .039                | .2132         | .2210            | New gun                                                       |
|                                                                           | "                                                      | 58546        | L                    | 9.3                    | 6                  | .033                | .2128         | .2200            |                                                               |
|                                                                           | "                                                      | 66192        | L                    | 9.5                    | 6                  | .034                | .2122         | .2200            |                                                               |
|                                                                           | "                                                      | 70332        | L                    | 9.2                    | 6                  | .034                | .2128         | .2196            |                                                               |
|                                                                           | "                                                      | 73543        | L                    | 9.3                    | 6                  | .034                | .2130         | .2200            |                                                               |
|                                                                           | "                                                      | 73553        | L                    | 9.2                    | 6                  | .039                | .2130         | .2207            |                                                               |
|                                                                           | "                                                      | 76796        | L                    | 9.35                   | 6                  | .039                | .2125         | .2195            | New gun                                                       |
|                                                                           | "                                                      | 77398        | L                    | 9.4                    | 6                  | .038                | .2132         | .2196            |                                                               |
|                                                                           | "                                                      | 82729        | L                    | 9.45                   | 6                  | .039                | .2122         | .2198            |                                                               |
|                                                                           | "                                                      | 88117        | L                    | 10.1                   | 6                  | .042                | .2151         | .2184            | Mkd: CUB.                                                     |
|                                                                           | "                                                      | 88860        | L                    | 10.0                   | 6                  | .041                | .2152         | .2186            | "                                                             |
|                                                                           | "                                                      | 89009        | L                    | 9.8                    | 6                  | .043                | .2151         | .2185            | "                                                             |
|                                                                           | "                                                      | 71231        | L                    | 9.2                    | 6                  | .037                | .2126         | .2195            |                                                               |
|                                                                           | "                                                      | 121145       | L                    | 9.6                    | 6                  | .061                | .2141         | .2180            | Mkd: CUB.                                                     |
|                                                                           | Astra-4000                                             | 795677       | R                    | 10.0                   | 6                  | .256                | .2134         | .2187            | Unusual land width.<br>Auxiliary barrel,<br>slide, etc.       |
|                                                                           | Pietro Beretta,<br>Gardone V. T. (Brescia),<br>Italy   | Mod. 948     | R                    | 14.0                   | 6                  | .031                | .2127         | .2189            | Gun dated 1951.                                               |
|                                                                           | "                                                      | 93612-N      | R                    | 14.0                   | 6                  | .030                | .2140         | .2202            | Gun dated 1958.                                               |
|                                                                           | Mod. 1950                                              | 51136-cc     | R                    | 13.9                   | 6                  | .031                | .2132         | .2186            | Gun dated 1952.                                               |
|                                                                           | Mod. 950                                               | 56226 cc     | R                    | 14.0                   | 6                  | .030                | .2125         | .2233            |                                                               |
|                                                                           | "                                                      | 64849 cc     | R                    | 14.0                   | 6                  | .034                | .2130         | .2190            | Gun dated 1955.                                               |
|                                                                           | "                                                      | 67872 cc     | R                    | 13.8                   | 6                  | .030                | .2128         | .2193            |                                                               |
|                                                                           | "                                                      | 78682 cc     | R                    | 14.6                   | 6                  | .030                | .2132         | .2190            | Gun dated 1958.                                               |
|                                                                           | "                                                      | 87029 cc     | R                    | 14.5                   | 6                  | .033                | .2130         | .2198            |                                                               |
|                                                                           | Mod. 950-B                                             | C-15906      | R                    | 13.7                   | 6                  | .020                | .2131         | .2207            | Mkd: XVI<br>TIPO FLOBERT.                                     |
| Vincenzo Bernardelli,<br>Brescia, Italy                                   | "                                                      | C-16058      | R                    | 13.8                   | 6                  | .023                | .2125         | .2202            |                                                               |
|                                                                           | "                                                      | C-19967      | R                    | 13.7                   | 6                  | .021                | .2130         | .2200            | Mkd: MINX                                                     |
|                                                                           | "                                                      | C-21675      | R                    | 14.3                   | 6                  | .022                | .2134         | .2200            |                                                               |
|                                                                           | "                                                      | C-32822      | R                    | 13.9                   | 6                  | .025                | .2136         | .2202            |                                                               |
|                                                                           | Mod. 71 "Jaguar"                                       | 77630        | R                    | 13.9                   | 6                  | .022                | .2132         | .2205            |                                                               |
|                                                                           | Mod. 80                                                | 735          | R                    | 23.8                   | 6                  | .034                | .2173         | .2228            | Gun made in 1945                                              |
|                                                                           | "Baby" Mod.                                            | 18596        | R                    | 6.1                    | 6                  | .055                | .2148         | .2216            | Dated XXIII                                                   |
|                                                                           | Colt's Patent Firearms<br>Mfg. Co.,<br>Hartford, Conn. | Pre-Woodsman | L                    | 14.3                   | 6                  | .037                | .2145         | .2225            |                                                               |
|                                                                           | "                                                      | Woodsman     | L                    | 14.5                   | 6                  | .036                | .2142         | .2220            | Name "Woodsman" added<br>March, 1917 at<br>Serial No. 30,000. |
|                                                                           | Pre-Woodsman                                           | 20445        | L                    | 14.1                   | 6                  | .033                | .2156         | .2240            |                                                               |
| Echave, Arizmendi y<br>Cia., S.A., (Trade<br>Name ECHASA)<br>Eibar, Spain | Ace                                                    | 2667         | L                    | 14.0                   | 6                  | .036                | .2146         | .2233            |                                                               |
|                                                                           | Service Ace                                            | S M 649      | L                    | 14.2                   | 6                  | .032                | .2140         | .2216            |                                                               |
|                                                                           | Challenger                                             | 4843-C       | L                    | 14.5                   | 6                  | .040                | .2132         | .2216            |                                                               |
|                                                                           | "                                                      | 32369-C      | L                    | 14.0                   | 6                  | .038                | .2130         | .2212            |                                                               |
|                                                                           | "                                                      | 63858-C      | L                    | 13.8                   | 6                  | .037                | .2133         | .2220            |                                                               |
|                                                                           | Huntsman                                               | 118228-C     | L                    | 14.7                   | 6                  | .040                | .2150         | .2213            |                                                               |
|                                                                           | M.A.B. GZ                                              | 10703        | R                    | 15.5                   | 6                  | .044                | .2130         | .2200            |                                                               |
|                                                                           | "                                                      | 19296        | R                    | 11.2                   | 6                  | .060                | .2112         | .2220            |                                                               |
|                                                                           | STAR Mod. F                                            | F-404436     | R                    | 12.6                   | 6                  | .033                | .2130         | .2203            |                                                               |
|                                                                           | "                                                      | F-452435     | R                    | 12.7                   | 6                  | .039                | .2122         | .2202            |                                                               |
| Present name:<br>STAR Bonifacio<br>Echeverria S.A.)                       | "                                                      | F-462224     | R                    | 12.6                   | 6                  | .039                | .2121         | .2200            |                                                               |
|                                                                           | "                                                      | F-464297     | R                    | 12.7                   | 6                  | .040                | .2127         | .2194            |                                                               |
|                                                                           | "                                                      | F-472473     | R                    | 12.6                   | 6                  | .039                | .2129         | .2201            |                                                               |
|                                                                           | "                                                      | F-480920     | R                    | 12.6                   | 6                  | .039                | .2124         | .2200            |                                                               |
|                                                                           | STAR Mod. FR                                           | FR-951508    | R                    | 12.7                   | 6                  | .068                | .2107         | .2155            |                                                               |
|                                                                           | STAR-LANCER                                            | 726757       | R                    | 12.9                   | 6                  | .038                | .2119         | .2183            |                                                               |
|                                                                           | "                                                      |              |                      |                        |                    |                     |               |                  |                                                               |

\*By the term "groove diameter" is meant the distance

(1) from bottom of a groove to bottom of opposite groove, if bbl. has even number of grooves.

(2) from bottom of a groove to the top of the opposite land, if bbl. has odd number of grooves.

*Additional measurements*

| Manufacturer                                                                                                                  | Model (or Name)                                 | Serial No.             | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land  | Bore<br>Diam.           | Groove<br>Diam.*        | Remarks                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|------------------------|----------------------|------------------------|--------------------|----------------------|-------------------------|-------------------------|--------------------------------------------------------------------------------------|
| Erma Werke,<br>Munchen Dachau,<br>Germany                                                                                     | Erma EP.22<br>"                                 | 02970<br>42302         | R<br>R               | 15.9<br>14.8           | 6<br>6             | .045<br>.041         | .2172<br>.2163          | .2224<br>.2225          |                                                                                      |
| Fab. Nationale d'Armes<br>de Guerre,<br>Herstal, Belgium                                                                      | Nomad                                           | 24589P3                | R                    | 16.1                   | 6                  | .056                 | .2176                   | .2236                   |                                                                                      |
| Gabilondo y Cia.,<br>Elgoibar, Spain                                                                                          | Llama Mod. XV                                   | 203192                 | R                    | 14.8                   | 6                  | .056                 | .2113                   | .2187                   | "Airlite"                                                                            |
| (Presently known as<br>Llama Gabilondo y<br>Cia., S.A.,<br>Vitoria (Alava), Spain                                             | Llama Mod. XVI<br>"                             | 293543<br>380066       | R<br>R               | 15.2<br>19.3           | 6<br>6             | .050<br>.045         | .2101<br>.2089          | .2167<br>.2209          | Mkd. Elgoibar<br>Mkd: Vitoria                                                        |
| Soc. Italiana F.lli Galesi,<br>Collebeato (Brescia),<br>Italy                                                                 | Llama Mod. XVII<br>"                            | 284217                 | R                    | 15.2                   | 6                  | .047                 | .2083                   | .2155                   |                                                                                      |
| (Formerly Insustria<br>Armi Galesi)                                                                                           | Galesi Mod. 9<br>"                              | 105911<br>108510       | R<br>R               | 6.65<br>9.8            | 6<br>6             | .037<br>.038         | .2035<br>.2112          | .2123<br>.2192          |                                                                                      |
| Hartford Arms &<br>Equipment Co.<br>Hartford, Conn.                                                                           | "<br>"                                          | 128244<br>138605       | R<br>R               | 9.8<br>9.9             | 6<br>6             | .038<br>.040         | .2111<br>.2119          | .2198<br>.2190          |                                                                                      |
| High Standard Mfg. Co.,<br>Hamden, Conn.                                                                                      | "<br>"                                          | 128244<br>3314         | R<br>R               | 9.85<br>14.8           | 6<br>6             | .038<br>.050         | .2111<br>.2162          | .2198<br>.2210          | Gun dated 1943.                                                                      |
|                                                                                                                               | H-D Military<br>"                               | 185419<br>Removed      | R<br>R               | 14.0<br>14.0           | 6<br>6             | .030<br>.028         | .2134<br>.2130          | .2180<br>.2186          |                                                                                      |
|                                                                                                                               | H-E<br>B                                        | 87614<br>22366         | R<br>R               | 13.9<br>13.8           | 6<br>6             | .025<br>.033         | .2120<br>.2124          | .2190<br>.2198          |                                                                                      |
|                                                                                                                               | "<br>Sport King                                 | 42470<br>345513        | R<br>R               | 13.95<br>14.0          | 6<br>6             | .032<br>.023         | .2126<br>.2136          | .2194<br>.2196          |                                                                                      |
|                                                                                                                               | "<br>"                                          | 353831<br>511382       | R<br>R               | 14.1<br>16.0           | 6<br>6             | .025<br>.058         | .2140<br>.2176          | .2203<br>.2203          |                                                                                      |
|                                                                                                                               | "<br>"                                          | 519024<br>519618       | R<br>R               | 15.2<br>16.0           | 6<br>6             | .054<br>.052         | .2179<br>.2175          | .2235<br>.2223          | Note change in rifling.                                                              |
|                                                                                                                               | "<br>"                                          | 740960<br>434878       | R<br>R               | 15.1<br>23.15          | 6<br>6             | .053<br>.053         | .2187<br>.2166          | .2235<br>.2220          |                                                                                      |
|                                                                                                                               | Flite King<br>"                                 | 435679                 | R                    | 25.3                   | 6                  | .050                 | .2182                   | .2226                   |                                                                                      |
|                                                                                                                               | Dura-matic<br>"                                 | 462879<br>510460       | R<br>R               | 16.5<br>16.0           | 6<br>6             | .057<br>.055         | .2167<br>.2164          | .2213<br>.2222          |                                                                                      |
|                                                                                                                               | "<br>Citation                                   | 1047273<br>"           | R<br>R               | 16.1<br>15.7           | 6<br>6             | .052<br>.054         | .2177<br>.2172          | .2233<br>.2232          |                                                                                      |
|                                                                                                                               | "<br>"                                          | "                      | R                    | 14.0                   | 6                  | .031                 | .2172                   | .2221                   | Special barrel rifled by<br>J. E. Clark,<br>Shreveport, La.                          |
|                                                                                                                               | "J. C. Higgins"<br>Mod. 80                      | 621818                 | R                    | 16.0                   | 6                  | .056                 | .2187                   | .2234                   | Made for Sears,<br>Roebuck & Co.                                                     |
| Heckler & Koch,<br>G.m.b.H., Oberndorf<br>a N, Germany                                                                        | HK4                                             | 10572                  | R                    | 13.4                   | 6                  | .026                 | .2139                   | .2213                   | Barrel No. 101351<br>HK4 supplied with<br>4 barrels.<br>.22, 6.35, 7.65<br>and 9 mm. |
| Hispano Argentina<br>Fabrica de<br>Automoviles, S.A.,<br>Buenos Aires, Argentine                                              | Hafdas                                          | 97626                  | L                    | 15.1                   | 6                  | .035                 | .2157                   | .2226                   | Ballester-Molina Pat.                                                                |
| Mre. D'Armes<br>Automatiques Bayonne,<br>Bayonne, France                                                                      | Le Chasseur<br>Mod. F.                          | 4248<br>4705           | R<br>R               | 12.4<br>15.3           | 6<br>6             | .050<br>.050         | .2124<br>.2136          | .2223<br>.2218          | Dist. in U.S. by<br>Winfield Arms Co.                                                |
| Mre. d'Armes<br>des Pyrénées<br>Hendaye, France                                                                               | Mikros<br>"                                     | 555078<br>559864       | R<br>R               | 12.3<br>12.1           | 6<br>6             | .063<br>.063         | .2128<br>.2121          | .2150<br>.2192          |                                                                                      |
|                                                                                                                               | "UNIQUE" M 52<br>"                              | 477897<br>472275       | L<br>L               | 12.0<br>12.0           | 6<br>6             | .063<br>.063         | .2127<br>.2121          | .2207<br>.2203          |                                                                                      |
|                                                                                                                               | "J. C. Higgins<br>Mod. 85"<br>"UNIQUE" Mod. "L" | 517274<br>560281       | R<br>R               | 12.0<br>12.1           | 6<br>6             | .062<br>.059         | .2131<br>.2126          | .2147<br>.2206          | Sold by Sears,<br>Roebuck & Co.<br>An unused gun.                                    |
|                                                                                                                               | "<br>"                                          | 569057<br>576655       | R<br>R               | 12.3<br>12.4           | 6<br>6             | .058<br>.064         | .2128<br>.2120          | .2204<br>.2199          | Slide Mkd: armes<br>"UNIQUE"                                                         |
| The Reising Arms Corp.,<br>Hartford, Conn.                                                                                    | Reising Target<br>Pistol                        | 1280                   | R                    | 15.6                   | 6                  | .033                 | .2168                   | .2249                   | Pat. May 16, 1916;<br>Oct. 25, 1921.                                                 |
| (Moved to New York<br>City ca. 1922 and<br>became The Reising<br>Corp. Numbering of N.Y.<br>made pistols<br>starts at 10,000) | "<br>"<br>"                                     | 3382<br>10092<br>11494 | R<br>R<br>R          | 15.3<br>14.9<br>15.0   | 6<br>6<br>6        | .029<br>.031<br>.037 | .2151<br>.2146<br>.2156 | .2231<br>.2216<br>.2236 |                                                                                      |

# Firearms identification

| Manufacturer                                                                           | Model (or Name)           | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                                               |       |
|----------------------------------------------------------------------------------------|---------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|-----------------------------------------------------------------------|-------|
| Rigarmi,<br>Brescia, Italy                                                             | Rino Galesi               | 26795      | R                    | 9.3                    | 6                  | .055                | .2017         | .2055            | Gun dated 1958.<br>Name Rino Galesi<br>was dropped.                   |       |
|                                                                                        | "                         | 29198      | R                    | 9.1                    | 6                  | .056                | .2025         | .2110            |                                                                       |       |
|                                                                                        | Rigarmi                   | 81631      | R                    | 11.5                   | 6                  | .056                | .2133         | .2184            |                                                                       |       |
| Robar et Cie.,<br>Liège, Belgium                                                       | Mercury                   | 1498       | R                    | 9.6                    | 6                  | .027                | .2160         | .2216            | Has characteristic<br>of the 1920<br>Mod. Melior.                     |       |
| Smith & Wesson, Inc.,<br>Springfield, Mass.<br>Sturm, Ruger & Co.,<br>Southport, Conn. | Mod. 41                   | 75919      | R                    | 15.1                   | 6                  | .040                | .2147         | .2236            | Target pistol.<br>"Bull" barrel.                                      |       |
|                                                                                        | Mod. 46                   | 24083      | R                    | 15.1                   | 6                  | .039                | .2150         | .2250            |                                                                       |       |
|                                                                                        | Ruger-Standard            | 3141       | R                    | 14.0                   | 6                  | .038                | .2156         | .2233            |                                                                       |       |
|                                                                                        | Mod.                      | "          | 21742                | R                      | 14.0               | 6                   | .055          | .2140            |                                                                       | .2203 |
|                                                                                        | "                         | 60203      | R                    | 13.9                   | 6                  | .044                | .2150         | .2220            |                                                                       |       |
|                                                                                        | "                         | 98768      | R                    | 13.9                   | 6                  | .046                | .2145         | .2210            |                                                                       |       |
|                                                                                        | "                         | 10113      | R                    | 14.4                   | 6                  | .040                | .2166         | .2214            |                                                                       |       |
|                                                                                        | "                         | 104887     | R                    | 14.4                   | 6                  | .042                | .2166         | .2215            |                                                                       |       |
|                                                                                        | "                         | 110855     | R                    | 13.9                   | 6                  | .043                | .2146         | .2210            |                                                                       |       |
|                                                                                        | "                         | 128737     | R                    | 14.1                   | 6                  | .040                | .2169         | .2223            |                                                                       |       |
|                                                                                        | "                         | 129092     | R                    | 14.2                   | 6                  | .050                | .2165         | .2217            |                                                                       |       |
|                                                                                        | "                         | 132071     | R                    | 14.7                   | 6                  | .041                | .2151         | .2213            |                                                                       |       |
|                                                                                        | "                         | 136561     | R                    | 14.4                   | 6                  | .040                | .2165         | .2221            |                                                                       |       |
|                                                                                        | "                         | 136629     | R                    | 14.2                   | 6                  | .046                | .2161         | .2220            |                                                                       |       |
|                                                                                        | "                         | 182520     | R                    | 14.0                   | 6                  | .052                | .2165         | .2217            |                                                                       |       |
|                                                                                        | "                         | 205319     | R                    | 14.0                   | 6                  | .050                | .2157         | .2217            |                                                                       |       |
|                                                                                        | "                         | 227493     | R                    | 13.9                   | 6                  | .048                | .2165         | .2219            |                                                                       |       |
|                                                                                        | Ruger—Mark I              | 307955     | R                    | 13.8                   | 6                  | .045                | .2157         | .2217            |                                                                       |       |
| Tallares Armas<br>Livianas Argentinas,<br>Punta Alta,<br>Argentina                     | T.A.L.A.                  | 12697      | L                    | 16.0                   | 6                  | .043                | .2181         | .2261            |                                                                       |       |
| Tanfoglio Giuseppe<br>Fabbrica d'Armi,<br>Magno Gardone V.T.,<br>(Brescia) Italy       | Titan                     | A-29565    | R                    | 20.0                   | 6                  | .045                | .2076         | .2184            | Dated XXII                                                            |       |
| Tanfoglio &<br>Sabotti, Brescia<br>Italy                                               | Sata<br>"                 | 1013       | R                    | 9.9                    | 6                  | .030                | .2141         | .2201            | Gun dated 1959.                                                       |       |
|                                                                                        |                           | 5242       | R                    | 10.0                   | 6                  | .031                | .2153         | .2201            |                                                                       |       |
| Armas Trejo, A.A.,<br>Zacatlan Pueblo,<br>Mexico                                       | Trejo-Tipo<br>Rafaga<br>" | 1740       | R                    | 13.4                   | 6                  | .039                | .2044         | .2124            | First model                                                           |       |
|                                                                                        |                           | 002        | R                    | 13.4                   | 6                  | .038                | .2042         | .2132            | 2nd Model.<br>Semi or Full<br>automatic.                              |       |
| Carl Walther<br>Waffenfabrik,<br>Ulm/Do,<br>West Germany                               | PP Sport<br>Mod. TP       | 73261-C    | R                    | 15.1                   | 6                  | .044                | .2145         | .2223            | Gun dated 1968<br>Gun dated 1967                                      |       |
|                                                                                        |                           | 200156     | R                    | 10.0                   | 6                  | .035                | .2154         | .2237            |                                                                       |       |
| Whitney Firearms Inc.,<br>New Haven, Conn.                                             | Whitney<br>Wolverine<br>" | 31398      | R                    | 17.0                   | 6                  | .057                | .2175         | .2220            |                                                                       |       |
|                                                                                        |                           | 32880      | R                    | 17.2                   | 6                  | .055                | .2193         | .2227            |                                                                       |       |
| <b>Caliber: .25</b>                                                                    |                           |            |                      |                        |                    |                     |               |                  |                                                                       |       |
| Astra-Unceta y Cia. S.A.,<br>Guernica, Spain                                           | Junior Colt               | 12771-CC   | L                    | 10.3                   | 6                  | .050                | .2472         | .2523            | Made for Colt<br>Industries,<br>Firearms Division,<br>Hartford, Conn. |       |
| Colt's Pt. F.A. Mfg. Co.,<br>Hartford, Conn.                                           | Pocket Mod.<br>"          | 167756     | L                    | 16.4                   | 6                  | .037                | .2434         | .2546            | Unused gun.                                                           |       |
|                                                                                        |                           | 306587     | L                    | 16.0                   | 6                  | .034                | .2435         | .2551            |                                                                       |       |
| Hy Hunter F.A.<br>Mfg. Co.,<br>Hollywood, Calif.<br>(Importer)                         | "Stingray"<br>"<br>"      | 02617      | R                    | 17.1                   | 10                 | .031                | .2520         | .2580            | Made in<br>West Germany<br>"                                          |       |
|                                                                                        |                           | 04210      | R                    | 18.4                   | 6                  | .054                | .2510         | .2574            |                                                                       |       |
|                                                                                        |                           | 05122      | R                    | 18.0                   | 6                  | .053                | .2510         | .2583            |                                                                       |       |
| <b>Caliber: 6.35 mm.</b>                                                               |                           |            |                      |                        |                    |                     |               |                  |                                                                       |       |
| Domingo Acha,<br>Erma, Spain                                                           | "Looking Glass"<br>"      | 52397      | L                    | 10.4                   | 6                  | .050                | .2462         | .2554            |                                                                       |       |
|                                                                                        |                           | 92527      | L                    | 11.1                   | 6                  | .058                | .2480         | .2530            |                                                                       |       |
| Francisco Arizmendi,<br>Eibar, Spain                                                   | Roland                    | FA-62627   | R                    | 20.2                   | 6                  | .046                | .2471         | .2551            |                                                                       |       |
| Astra-Unceta y Cia.,<br>Guernica, Spain                                                | Astra—Mod. 200            | 687896     | L                    | 9.4                    | 6                  | .032                | .2456         | .2516            | Mkd: UNCETA<br>Y CIA. S.A.                                            |       |
| (Originally Esperanza<br>and Unceta, in Eibar;<br>later Unceta y Cia.,<br>in Guernica) | "                         | 706615     | L                    | 9.4                    | 6                  | .040                | .2453         | .2510            | "                                                                     |       |
|                                                                                        | "                         | 725375     | L                    | 9.7                    | 6                  | .049                | .2473         | .2518            | "                                                                     |       |
|                                                                                        | "                         | 727180     | L                    | 9.5                    | 6                  | .042                | .2458         | .2507            | "                                                                     |       |
|                                                                                        | "                         | 730776     | L                    | 9.5                    | 6                  | .041                | .2469         | .2509            | "                                                                     |       |
|                                                                                        | "                         | 734928     | L                    | 9.55                   | 6                  | .042                | .2462         | .2518            | "                                                                     |       |
|                                                                                        | "                         | 737650     | L                    | 9.6                    | 6                  | .040                | .2407         | .2504            | "                                                                     |       |

*Additional measurements*

| Manufacturer                                                                             | Model (or Name)          | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                   |
|------------------------------------------------------------------------------------------|--------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|-------------------------------------------|
| Astra-Unceta y Cia.                                                                      | Astra Mod. 200           | 738255     | L                    | 9.5                    | 6                  | .043                | .2463         | .2519            | "                                         |
|                                                                                          | "                        | 765453     | L                    | 9.6                    | 6                  | .070                | .2475         | .2514            | Sold in U.S. as                           |
|                                                                                          | "                        | 779290     | L                    | 9.6                    | 6                  | .063                | .2480         | .2530            | the "FIRECAT."                            |
|                                                                                          | "                        | 861987     | L                    | 9.6                    | 6                  | .060                | .2481         | .2530            | "                                         |
|                                                                                          | "                        | 864418     | L                    | 9.6                    | 6                  | .060                | .2480         | .2516            | "                                         |
|                                                                                          | "Junior Colt"            | 12771      | L                    | 10.3                   | 6                  | .050                | .2472         | .2523            | Made for and sold by                      |
|                                                                                          | "                        | 36135CC    | L                    | 9.6                    | 6                  | .061                | .2469         | .2515            | Colt's Pt.<br>F. A. Mfg. Co.              |
| Martin A. Bascaran,<br>Eibar, Spain                                                      | Martian Commercial       | 13125      | L                    | 10.2                   | 6                  | .041                | .2451         | .2549            |                                           |
|                                                                                          | "                        | Removed    | L                    | 9.9                    | 6                  | .040                | .2463         | .2537            |                                           |
|                                                                                          | "                        | 13310      | L                    | 10.5                   | 6                  | .040                | .2462         | .2531            |                                           |
|                                                                                          | "                        | 15975      | L                    | 10.0                   | 6                  | .036                | .2459         | .2579            |                                           |
| Beistegui Hermanos,<br>Eibar, Spain                                                      | "B.H."                   | 105        | R                    | 10.5                   | 6                  | .048                | .2455         | .2511            | Mkd: PISTOL AUTO-                         |
| Pietro Beretta,<br>Gardone V.T.<br>(Brescia), Italy                                      | Beretta Mod. 318         | 648974     | R                    | 10.1                   | 6                  | .032                | .2452         | .2543            | MATIC CAL. 6.35<br>Gun dated 1946.        |
|                                                                                          | Beretta Mod. 418         | 62701-A    | R                    | 10.1                   | 6                  | .040                | .2470         | .2521            |                                           |
|                                                                                          | "                        | 79858-A    | R                    | 10.2                   | 6                  | .041                | .2472         | .2529            | Gun dated 1953.                           |
|                                                                                          | "                        | 07443-C    | R                    | 10.1                   | 6                  | .037                | .2461         | .2521            | Gun dated 1956.                           |
|                                                                                          | "                        | 25007-C    | R                    | 10.2                   | 6                  | .042                | .2462         | .2520            | Gun dated 1957.                           |
|                                                                                          | "Panther"                | 31641-C    | R                    | 10.2                   | 6                  | .037                | .2467         | .2526            | Gun dated 1958.                           |
|                                                                                          | Beretta "Bantam"         | 63382-A    | R                    | 10.1                   | 6                  | .039                | .2468         | .2520            | Gun dated 1952.                           |
|                                                                                          | "                        | 74820-A    | R                    | 10.1                   | 6                  | .035                | .2465         | .2522            | Gun dated 1953.                           |
|                                                                                          | "                        | 80958-A    | R                    | 10.1                   | 6                  | .039                | .2462         | .2522            | Gun dated 1953.                           |
|                                                                                          | "                        | 85194-A    | R                    | 10.1                   | 6                  | .037                | .2466         | .2522            | Gun dated 1953.                           |
|                                                                                          | Beretta 950-B            | B-16020    | R                    | 10.0                   | 6                  | .030                | .2466         | .2535            |                                           |
|                                                                                          | "                        | B-27063    | R                    | 10.0                   | 6                  | .031                | .2467         | .2533            | Sold in U.S. as<br>"Jet Fire"             |
| Vincenzo Bernardelli,<br>Gardone V.T.<br>(Brescia), Italy                                | Pocket Model             | 22374      | R                    | 10.3                   | 6                  | .046                | .2409         | .2528            | Gun dated 1948.                           |
|                                                                                          | "                        | 36216      | R                    | 10.2                   | 6                  | .046                | .2422         | .2512            | Gun dated 1950.                           |
|                                                                                          | "                        | 45711      | R                    | 10.1                   | 6                  | .056                | .2421         | .2533            | Gun dated 1951.                           |
|                                                                                          | "                        | 52023      | R                    | 10.1                   | 6                  | .055                | .2422         | .2504            | Gun dated 1952.                           |
|                                                                                          | "                        | 79871      | R                    | 17.4                   | 6                  | .036                | .2432         | .2564            | Unusual rifling.                          |
|                                                                                          | "                        | 91946      | R                    | 10.0                   | 6                  | .035                | .2443         | .2571            |                                           |
| Bernedo y Cia.,<br>Eibar, Spain                                                          | "Pistole<br>Automatique" | 2888       | R                    | 11.0                   | 6                  | .047                | .2463         | .2565            |                                           |
| Bohmische Waffenfabrik,<br>A.G.,<br>Prague, Czechoslovakia                               | Czech Mod. 1922          | 5933       | R                    | 7.9                    | 6                  | .024                | .2488         | .2562            |                                           |
| Gregorio Bolumburu,<br>Eibar, Spain                                                      | Regina                   | 6732       | R                    | 9.8                    | 6                  | .049                | .2455         | .2511            |                                           |
| Česka Zbrojovka<br>Narodní Podnik,<br>Strakonice,<br>Czechoslovakia                      | Mod. 1945                | 59955      | R                    | 7.9                    | 6                  | .0031               | .2453         | .2565            | Gun dated 1947.                           |
|                                                                                          | "                        | 69287      | R                    | 7.9                    | 6                  | .029                | .2459         | .2569            | Gun dated 1948.                           |
|                                                                                          | "                        | 70309      | R                    | 7.9                    | 6                  | .034                | .2460         | .2577            | Gun dated 1948.                           |
|                                                                                          | Z Aut. Pistole           | 189046     | R                    | 10.8                   | 6                  | .041                | .2467         | .2586            | Dated 1950. Formerly<br>known as the Duo. |
|                                                                                          | "                        | 221270     | R                    | 10.3                   | 6                  | .030                | .2435         | .2535            |                                           |
| Charles Ph. Clement,<br>Liège, Belgium                                                   | Clement Mod. 1903        | 10148      | R                    | 10.1                   | 5                  | .036                | .2457         | .2520            |                                           |
| Deutsche Werke, A.G.,<br>Erfurt, Germany                                                 | Ortgies                  | 19407      | R                    | 7.0                    | 6                  | .029                | .2434         | .2531            |                                           |
|                                                                                          | "                        | 36997      | R                    | 7.1                    | 6                  | .034                | .2441         | .2513            |                                           |
|                                                                                          | "                        | 112444     | R                    | 7.1                    | 6                  | .033                | .2442         | .2531            |                                           |
|                                                                                          | "                        | 117224     | R                    | 7.1                    | 6                  | .032                | .2447         | .2543            |                                           |
| G. C. Dornheim, A.G.<br>(Dealer)<br>Suhl, Germany                                        | Gecado                   | 43916      | R                    | 21.3                   | 6                  | .036                | .2505         | .2569            | Unusual rifling twist                     |
| F. Dušek,<br>Opocno,<br>Czechoslovakia                                                   | DUO                      | 62507      | R                    | 10.7                   | 6                  | .031                | .2439         | .2523            | Gun dated 1943.                           |
|                                                                                          | "                        | 97620      | R                    | 10.9                   | 6                  | .043                | .2466         | .2570            | Gun dated 1944.                           |
| (German spelling<br>Opotschno used during<br>World War II)                               | "                        | 179428     | R                    | 10.7                   | 6                  | .033                | .2460         | .2568            | Gun dated 1949.                           |
| Echave y Arizmendi,<br>Eibar, Spain                                                      | "Bronco"<br>Mod. 1918    | 40064      | L                    | 10.8                   | 6                  | .048                | .2461         | .2554            |                                           |
| Bonifacio Echeverria,<br>Eibar, Spain                                                    | STAR-Mod. E              | 3427E      | L                    | 10.3                   | 6                  | .038                | .2459         | .2503            |                                           |
| Esperanza y Unceta,<br>Eibar, Spain<br>(Later moved to<br>Guernica.<br>See Astra-Unceta) | 1911 "Victoria"          | 506        | R                    | 11.8                   | 6                  | .047                | .2465         | .2537            |                                           |
| Erquiaga,<br>Muguruza y Cia.,<br>Eibar, Spain                                            | Auto Pistol FIEL         | None       | R                    | 10.0                   | 6                  | .050                | .2426         | .2540            |                                           |

# Firearms identification

| Manufacturer                                                                  | Model (or Name)              | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                                          |
|-------------------------------------------------------------------------------|------------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|------------------------------------------------------------------|
| Fab. Nationale<br>d'Armes de<br>Guerre,<br>Herstal, Belgium                   | Browning<br>Mod. 1906        | 624827     | R                    | 9.6                    | 6                  | .038                | .2449         | .2530            |                                                                  |
|                                                                               |                              | 985339     | R                    | 9.6                    | 6                  | .040                | .2444         | .2534            |                                                                  |
|                                                                               | Baby Browning                | 117994     | R                    | 9.85                   | 6                  | .037                | .2450         | .2530            | Mkd: Browning Arms Co.,<br>St. Louis, Mo.                        |
|                                                                               |                              | 133457     | R                    | 9.5                    | 6                  | .041                | .2457         | .2532            |                                                                  |
|                                                                               |                              | 148501     | R                    | 9.8                    | 6                  | .040                | .2453         | .2533            |                                                                  |
|                                                                               |                              | 166341     | R                    | 9.7                    | 6                  | .038                | .2448         | .2534            |                                                                  |
|                                                                               |                              | 167513     | R                    | 9.5                    | 6                  | .038                | .2449         | .2540            |                                                                  |
|                                                                               |                              | 172916     | R                    | 9.5                    | 6                  | .039                | .2445         | .2535            |                                                                  |
|                                                                               |                              | 177691     | R                    | 9.7                    | 6                  | .041                | .2445         | .2535            |                                                                  |
|                                                                               |                              | 193165     | R                    | 9.6                    | 6                  | .040                | .2447         | .2533            |                                                                  |
|                                                                               |                              | 196328     | R                    | 9.5                    | 6                  | .038                | .2452         | .2537            |                                                                  |
|                                                                               |                              | 206265     | R                    | 9.7                    | 6                  | .041                | .2447         | .2539            |                                                                  |
|                                                                               |                              | 220369     | R                    | 9.7                    | 6                  | .039                | .2448         | .2528            |                                                                  |
|                                                                               |                              | 233287     | R                    | 9.7                    | 6                  | .038                | .2457         | .2531            |                                                                  |
|                                                                               |                              | 240842     | R                    | 9.6                    | 6                  | .039                | .2450         | .2532            |                                                                  |
|                                                                               |                              | 259399     | R                    | 9.6                    | 6                  | .038                | .2446         | .2531            |                                                                  |
|                                                                               |                              | 278857     | R                    | 9.6                    | 6                  | .035                | .2450         | .2532            |                                                                  |
| Fegyvergyar<br>(Femaru Fegyver és<br>Gépgyár R.T.)<br>Budapest, Hungary       | Liliput                      | 416726     | R                    | 9.85                   | 4                  | .061                | .2431         | .2541            |                                                                  |
|                                                                               |                              |            |                      |                        |                    |                     |               |                  |                                                                  |
|                                                                               | Mod. 9                       | 165111     | R                    | 10.2                   | 6                  | .056                | .2454         | .2534            | Gun dated 1953.                                                  |
|                                                                               |                              | 170020     | R                    | 11.0                   | 6                  | .061                | .2442         | .2523            | Gun dated 1953.                                                  |
|                                                                               |                              | 191058     | R                    | 6.15                   | 6                  | .056                | .2450         | .2533            | Gun dated 1957.                                                  |
|                                                                               |                              |            |                      |                        |                    |                     |               |                  | Unusual twist.                                                   |
|                                                                               |                              | 194952     | R                    | 9.9                    | 6                  | .041                | .2438         | .2550            | Gun dated 1957.                                                  |
|                                                                               |                              | 200885     | R                    | 9.9                    | 6                  | .042                | .2442         | .2542            | Gun dated 1957.                                                  |
|                                                                               |                              | 311627     | R                    | 9.8                    | 6                  | .042                | .2435         | .2534            | Gun dated 1958.                                                  |
|                                                                               |                              | 313394     | R                    | 9.7                    | 6                  | .045                | .2433         | .2499            | Gun dated 1958.                                                  |
|                                                                               |                              | 321835     | R                    | 9.8                    | 6                  | .041                | .2432         | .2547            | Mkd: XV                                                          |
|                                                                               |                              | 323597     | R                    | 9.8                    | 6                  | .040                | .2433         | .2548            | Mkd: XVI                                                         |
|                                                                               |                              | 336523     | R                    | 9.8                    | 6                  | .055                | .2454         | .2546            | Mkd: XVI                                                         |
|                                                                               |                              | 355315     | R                    | 9.8                    | 6                  | .050                | .2451         | .2547            | Mkd: XVIII                                                       |
|                                                                               |                              | 385187     | R                    | 9.8                    | 6                  | .056                | .2454         | .2536            | Mkd: XX                                                          |
|                                                                               |                              | 481556     | R                    | 9.9                    | 6                  | .055                | .2445         | .2546            | Mkd: XXIV                                                        |
| C. G. Haenel,<br>Suhl, Germany                                                | Schmeisser<br>(1st model)    | 45771      | R                    | 9.6                    | 4                  | .065                | .2455         | .2526            |                                                                  |
|                                                                               |                              |            |                      |                        |                    |                     |               |                  |                                                                  |
| Hawes Firearms Co.,<br>Los Angeles, Calif.<br>(Dealer)                        | "Hawes" Auto                 | 98774      | R                    | 8.65                   | 8                  | .054                | .2450         | .2514            |                                                                  |
|                                                                               |                              | 34100      | R                    | 20.8                   | 6                  | .036                | .2512         | .2574            | Also sold in the<br>U.S. as the<br>"FALCON," "PIC,"<br>"GECADO." |
| Th. Kommer,<br>Zella-Mehlis, Germany                                          | Kommer II                    | 19         | R                    | 10.0                   | 4                  | .071                | .2456         | .2557            |                                                                  |
| Fr. Langenhan,<br>Zella-Mehlis, Germany                                       | Langenhan Mod. II            | 79         | R                    | 9.5                    | 4                  | .070                | .2403         | .2521            |                                                                  |
|                                                                               |                              | 10834      | R                    | 9.4                    | 6                  | .039                | .2396         | .2512            |                                                                  |
|                                                                               | Langenhan Mod. III           | Removed    | R                    | 9.5                    | 4                  | .070                | .2403         | .2521            |                                                                  |
|                                                                               |                              | 26335      | R                    | 9.4                    | 4                  | .081                | .2432         | .2526            |                                                                  |
| Akt. Ges Lignose Berlin,<br>Abteilung Suhl,<br>Suhl, Germany                  | Lignose Mod. 2               | 9681       | R                    | 9.6                    | 6                  | .031                | .2443         | .2506            |                                                                  |
|                                                                               |                              | 51489      | R                    | 9.7                    | 6                  | .033                | .2414         | .2496            |                                                                  |
|                                                                               | Lignose Mod. 3A              | 52514      | R                    | 9.7                    | 6                  | .032                | .2432         | .2514            |                                                                  |
|                                                                               |                              | 2421-20    | R                    | 9.6                    | 6                  | .039                | .2446         | .2543            |                                                                  |
| Mann Werke,<br>Suhl, Germany                                                  | Mann. Pocket Mod.            |            |                      |                        |                    |                     |               |                  |                                                                  |
| Mre. d'Armes<br>Automatiques<br>Bayonne,<br>Bayonne, France                   | M.A.B. Mod. B                | 25834      | R                    | 12.3                   | 6                  | .046                | .2457         | .2539            |                                                                  |
|                                                                               |                              | 2390       | R                    | 12.3                   | 6                  | .045                | .2452         | .2538            |                                                                  |
| Mre. Francaise d'Armes<br>et Cycles<br>de St. Etienne,<br>St. Etienne, France | Pocket Mod.<br>"Le Francais" | 4771       | R                    | 10.7                   | 6                  | .034                | .2450         | .2514            |                                                                  |
|                                                                               |                              | 63766      | R                    | 18.0                   | 6                  | .028                | .2443         | .2517            | Unusual twist.                                                   |
| Waffenfabrik Mauser,<br>Oberndorf a N,<br>Germany                             | Pocket Mod. 1910             | 6798       | R                    | 7.3                    | 6                  | .049                | .2456         | .2514            |                                                                  |
|                                                                               |                              | 243946     | R                    | 7.2                    | 6                  | .045                | .2462         | .2512            |                                                                  |
|                                                                               | W.P.T. Mod. II               | 63384      | R                    | 7.0                    | 6                  | .044                | .2453         | .2543            |                                                                  |
|                                                                               |                              | 271649     | R                    | 7.1                    | 6                  | .035                | .2446         | .2530            |                                                                  |
| Anc. Etablissements<br>Pieper,<br>Herstal, Belgium                            | Pocket Mod. 1934             | 426578     | R                    | 7.2                    | 6                  | .050                | .2462         | .2526            |                                                                  |
|                                                                               |                              | 4993       | L                    | 10.6                   | 6                  | .024                | .2460         | .2506            |                                                                  |
|                                                                               | Bayard Mod. 1912             | 33306      | L                    | 10.0                   | 6                  | .020                | .2393         | .2496            |                                                                  |
| Pretoria Arms Co.,<br>Pretoria, So. Africa                                    | PAF "JUNIOR"                 | A-1569     | L                    | 8.4                    | 6                  | .056                | .2430         | .2507            | Firm out of business                                             |
|                                                                               |                              | A-6149     | L                    | 16.0                   | 6                  | .056                | .2437         | .2486            |                                                                  |
|                                                                               |                              | A-7908     | L                    | 10.0                   | 6                  | .059                | .2423         | .2495            |                                                                  |
| Mre. d'Armes<br>des Pyrénées,<br>Hendaye, France                              | "MIKROS" Mod.<br>"K"         | 593810     | R                    | 12.6                   | 6                  | .057                | .2467         | .2516            | Mkd: Armes "UNIQUE"                                              |

*Additional measurements*

| Manufacturer                                                                                                          | Model (or Name)                                     | Serial No.                                                       | Dir'n<br>of<br>Twist            | Inches<br>of<br>1 Turn                          | No.<br>of<br>Lands              | Width<br>of<br>Land                                  | Bore<br>Diam.                                               | Groove<br>Diam.*                                            | Remarks                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|---------------------------------|-------------------------------------------------|---------------------------------|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reck Sportwaffenfabrik,<br>Lauf/Pegnitz,<br>West Germany                                                              | La Fury 8<br>Reck P8<br>"                           | 51548<br>103157<br>118210                                        | R<br>R<br>R                     | 10.1<br>10.0<br>10.6                            | 6<br>6<br>6                     | .040<br>.038<br>.042                                 | .2435<br>.2435<br>.2490                                     | .2522<br>.2523<br>.2566                                     | Same as Reck P8.                                                                                                                                                         |
| Rigarmi,<br>Brescia, Italy                                                                                            | Rino Galesi<br>"Rigarmi"<br>"<br>"                  | 41422<br>51719<br>54672<br>89613<br>52608                        | R<br>R<br>R<br>R<br>R           | 11.2<br>9.9<br>10.0<br>9.85<br>9.85             | 6<br>6<br>6<br>6<br>6           | .058<br>.052<br>.049<br>.056<br>.030                 | .2479<br>.2500<br>.2482<br>.2452<br>.2421                   | .2527<br>.2561<br>.2558<br>.2546<br>.2522                   | Gun dated 1958.<br>Mkd: XVI. Name<br>Rino Galesi dropped.<br>Mkd: XVII                                                                                                   |
| Robar & DeKerkhove,<br>Liège, Belgium                                                                                 | Melior Mod. 1920                                    | 20332                                                            | R                               | 9.7                                             | 6                               | .038                                                 | .2458                                                       | .2510                                                       | Also called<br>"New Model"                                                                                                                                               |
| Ruby Arms Co.,<br>Elgoibar, Spain                                                                                     | "Ruby"                                              | 5534                                                             | L                               | 10.6                                            | 6                               | .047                                                 | .2444                                                       | .2522                                                       | "Ruby Arms Co."<br>actually Gabilondo                                                                                                                                    |
| Santiago Salaberrin,<br>Ermua, Spain                                                                                  | "Protector"                                         | 103105                                                           | R                               | 9.6                                             | 6                               | .044                                                 | .2456                                                       | .2546                                                       | Probably by Salaberrin.<br>"                                                                                                                                             |
| Soc. Espanola de Armas<br>y Municiones,<br>Eibar, Spain                                                               | S.E.A.M.                                            | 28391                                                            | R                               | 10.6                                            | 6                               | .062                                                 | .2475                                                       | .2521                                                       |                                                                                                                                                                          |
| Soc. Francaise d'Armes<br>de St. Etienne,<br>St. Etienne, France                                                      | "Automatique<br>Francaise"                          | 56                                                               | R                               | 10.2                                            | 6                               | .029                                                 | .2486                                                       | .2556                                                       |                                                                                                                                                                          |
| Tanfoglio Giuseppe,<br>Magno Gardone V.T.,<br>(Brescia), Italy                                                        | Titan<br>"<br>"<br>"                                | A-11473<br>A-42267<br>43403<br>A-60018                           | R<br>R<br>R<br>R                | 21.6<br>18.4<br>15.5<br>21.7                    | 6<br>6<br>6<br>6                | .060<br>.052<br>.054<br>.053                         | .2460<br>.2402<br>.2530<br>.2439                            | .2539<br>.2545<br>.2535<br>.2530                            | Dated XXII<br>Dated XXIII<br>Dated XXIII                                                                                                                                 |
| Tomas de Urizar y cia.,<br>Eibar, Spain                                                                               | "Princps" Pat.                                      | 13378                                                            | R                               | 5.75                                            | 6                               | .045                                                 | .2490                                                       | .2552                                                       | Distributed by Fab.<br>d'Armes de Grande<br>Precision, Eibar.                                                                                                            |
| Tulski Oruzheinyi<br>Zavod, Tula, Russia                                                                              | Tulski Korovin                                      | 166278                                                           | R                               | 7.2                                             | 6                               | .032                                                 | .2444                                                       | .2549                                                       |                                                                                                                                                                          |
| Arsenal Vienna,<br>Vienna, Austria                                                                                    | Steyr                                               | 9891                                                             | R                               | 10.6                                            | 6                               | .052                                                 | .2470                                                       | .2547                                                       |                                                                                                                                                                          |
| Waffenfabrik Walther,<br>Zella-Mehlis, Germany                                                                        | Mod. 1<br>Mod. 2<br>Mod. 5<br>Mod. 8<br>"<br>"<br>" | 83680<br>22477<br>687027<br>399756<br>402691<br>455743<br>727062 | R<br>R<br>R<br>R<br>R<br>R<br>R | 9.5<br>8.8<br>9.8<br>9.5<br>9.4<br>9.65<br>9.35 | 4<br>4<br>6<br>6<br>6<br>6<br>6 | .070<br>.027<br>.027<br>.018<br>.017<br>.017<br>.037 | .2444<br>.2442<br>.2453<br>.2455<br>.2482<br>.2505<br>.2453 | .2526<br>.2518<br>.2536<br>.2554<br>.2567<br>.2593<br>.2529 | Has internal extractor<br>and disassembly button.<br>"<br>"<br>Has external extractor<br>and disassembly button.<br>Has external extractor<br>and no disassembly button. |
| Webley & Scott, Ltd.,<br>Birmingham, England                                                                          | Pocket auto                                         | 111441                                                           | R                               | 10.3                                            | 6                               | .032                                                 | .2463                                                       | .2563                                                       |                                                                                                                                                                          |
| Wiener Waffenfabrik,<br>Vienna, Austria                                                                               | Little Tom                                          | 27052                                                            | R                               | 14.4                                            | 6                               | .054                                                 | .2471                                                       | .2587                                                       |                                                                                                                                                                          |
| E. Zehner,<br>Suhl, Germany                                                                                           | "Zehna"                                             | 8740                                                             | R                               | 8.2                                             | 4                               | .068                                                 | .2459                                                       | .2543                                                       |                                                                                                                                                                          |
| <b>Caliber: .30</b><br>J. Kimball Arms Co.,<br>Detroit, Mich.                                                         | "30 Carbine"                                        | 205                                                              | R                               | 12.0                                            | 8                               | .033                                                 | .2996                                                       | .3086                                                       | Manufacture<br>discontinued.                                                                                                                                             |
| <b>Caliber: 7.62 mm.</b><br>Russian Arsenal<br>(Probably Tula)<br>Reportedly made in<br>China for export<br>to Egypt. | Tokarev<br>"<br>Tokarev Mod. 20                     | 2882<br>34161<br>17056                                           | R<br>R<br>R                     | 9.5<br>9.5<br>9.4                               | 4<br>4<br>4                     | .080<br>.080<br>.081                                 | .3023<br>.3020<br>.3020                                     | .3133<br>.3141<br>.3140                                     | Dated 1933<br>Dated 1935<br>No name or other<br>identifying mark.                                                                                                        |
| Česka Zbrojovka,<br>Strakonice,<br>Czechoslovakia                                                                     | Mod. CZ52                                           | D-12423                                                          | R                               | 12.1                                            | 4                               | .072                                                 | .2996                                                       | .3111                                                       |                                                                                                                                                                          |
| <b>Caliber: 7.63 mm.</b><br>Bonifacio Echeverria,<br>Eibar, Spain                                                     | STAR Mod. A                                         | A 7296                                                           | R                               | 14.9                                            | 6                               | .041                                                 | .3015                                                       | .3097                                                       |                                                                                                                                                                          |
| Gaztefaga, Trocaola y<br>Ibarzabal, Eibar,<br>Spain                                                                   | Super Destroyer                                     | A2924                                                            | R                               | 10.6                                            | 6                               | .049                                                 | .3028                                                       | .3090                                                       | Ceased production<br>in 1936.                                                                                                                                            |
| Waffenfabrik Mauser,<br>Oberndorf a N,<br>Germany                                                                     | Mod. 712                                            | Removed                                                          | R                               | 7.9                                             | 6                               | .040                                                 | .3014                                                       | .3098                                                       | Full or semiautomatic.<br>Rear sight adjustable<br>to 1000 meters.                                                                                                       |
| Waffenfabrik Steyr,<br>Steyr, Austria                                                                                 | Mannlicher<br>Mod. 1905<br>"                        | 2699<br>3013                                                     | R<br>R                          | 9.9<br>9.9                                      | 4<br>4                          | .090<br>.093                                         | .3021<br>.3040                                              | .3151<br>.3164                                              |                                                                                                                                                                          |
| Unceta y Cia.,<br>Guernica, Spain                                                                                     | Astra Mod. 900                                      | 27815                                                            | R                               | 10.1                                            | 6                               | .047                                                 | .3020                                                       | .3074                                                       |                                                                                                                                                                          |

# Firearms identification

| Manufacturer             | Model (or Name)   | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                            |
|--------------------------|-------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|----------------------------------------------------|
| <b>Caliber: .32 cal.</b> |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Colt's Pt. F. A.         | 1903 Mod.         | 82859      | L                    | 16.3                   | 6                  | .045                | .3060         | .3130            | Pre 1911 type.                                     |
| Mfg. Co.,                | "                 | 111051     | L                    | 16.0                   | 6                  | .057                | .3058         | .3117            | Post 1911 type.                                    |
| Hartford, Conn.          | "                 | 117601     | L                    | 15.95                  | 6                  | .049                | .3057         | .3146            |                                                    |
| "                        | "                 | 429061     | L                    | 16.0                   | 6                  | .045                | .3040         | .3113            | Third type.                                        |
| "                        | "                 | 521406     | L                    | 16.0                   | 6                  | .051                | .3045         | .3111            |                                                    |
| "                        | "                 | 523386     | L                    | 16.0                   | 6                  | .051                | .3050         | .3114            |                                                    |
| Davis-Warner Arms Corp., | Infallible        | 3573       | R                    | 11.25                  | 6                  | .057                | .3050         | .3135            | Pat. July 28, 1914;<br>March 9, 1915.              |
| Assonet, Mass.           |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Harrington &             | H & R Self        | 22059      | R                    | 12.25                  | 6                  | .034                | .3037         | .3113            | Pat. Aug. 20, 1907;<br>Apr. 13, &<br>Nov. 9, 1909. |
| Richardson,              | Loading           |            |                      |                        |                    |                     |               |                  |                                                    |
| Worcester, Mass.         | "                 | 22948      | R                    | 12.1                   | 6                  | .030                | .3037         | .3117            |                                                    |
| Remington Arms-          | Mod. 51           | PA62758    | R                    | 16.0                   | 7                  | .037                | .3047         | .3080            |                                                    |
| U.M.C. Co.,              |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Ilion, N.Y.              |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Savage Arms Co.,         | Mod. 1907         | 103198     | R                    | 12.0                   | 6                  | .036                | .3047         | .3113            |                                                    |
| Utica, N.Y.              | Mod. 1915         | 133717     | R                    | 12.1                   | 6                  | .042                | .3045         | .3115            |                                                    |
|                          | Mod. 1917         | 220516     | R                    | 12.1                   | 6                  | .044                | .3052         | .3120            |                                                    |
| Smith & Wesson           | Mod. 1925         | 272        | R                    | 12.2                   | 6                  | .054                | .3040         | .3139            |                                                    |
| Springfield, Mass.       |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Wbley & Scott., Ltd.,    | W & S Auto Pistol | 63392      | R                    | 10.1                   | 6                  | .032                | .3038         | .3248            | Mkd: MP (Metropolitan<br>Police)                   |
| London &                 | "                 | 142659     | R                    | 10.1                   | 6                  | .038                | .3037         | .3149            | Commercial type.                                   |
| Birmingham, Eng.         | "                 | 153654     | R                    | 10.1                   | 6                  | .029                | .3043         | .3137            | Mod. 1906 4th Type.                                |
| <b>Caliber: 7.65 mm.</b> |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Francisco Arizmendi,     | Walman Improved   | 18353      | R                    | 11.1                   | 6                  | .036                | .3024         | .3150            | Improved "take-down."                              |
| Eibar, Spain             | Model             |            |                      |                        |                    |                     |               |                  |                                                    |
| Hijos de Calixto         | JO-LO-AR          | 12658      | R                    | 14.5                   | 6                  | .048                | .3025         | .3103            | Has a cocking lever.                               |
| Arrizabalaga,            | Sharp Shooter     | 11154      | R                    | 11.0                   | 6                  | .048                | .3023         | .3103            | Same as JO-LO-AR except<br>has no cocking lever.   |
| Eibar, Spain             |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Astra-Unceta y Cia.,     | Astra Mod.300     | 613289     | R                    | 9.4                    | 6                  | .039                | .3020         | .4126            |                                                    |
| Guernica, Spain          | Astra Mod. 4000   | 795677     | R                    | 9.8                    | 6                  | .046                | .3032         | .3117            | An auxiliary barrel.                               |
| Martin A. Bascaran,      | Martian           | None       | R                    | 10.3                   | 6                  | .036                | .3019         | .3142            |                                                    |
| Eibar, Spain             |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Mre. d'Armes             | M.A.B. Mod. C     | 316601     | R                    | 12.6                   | 6                  | .041                | .3003         | .3089            | Sold in U.S. as W.A.C.                             |
| Automatiques Bayonne,    | M.A.B. Mod. D     | 38758      | R                    | 12.0                   | 6                  | .043                | .3004         | .3094            |                                                    |
| Bayonne, France          | "                 | 39690      | R                    | 12.2                   | 6                  | .046                | .3010         | .3105            |                                                    |
| "                        | "                 | 96947      | R                    | 12.2                   | 6                  | .038                | .3014         | .3101            | Has German acceptance<br>marks.                    |
| Becker & Hollander,      | "Beholla"         | 15819      | R                    | 9.8                    | 6                  | .038                | .3025         | .3112            |                                                    |
| Suhl, Germany            | "                 | 42140      | R                    | 9.7                    | 6                  | .044                | .3018         | .3120            |                                                    |
| Berasaluzte Areitio      | "Allies"          | 5290       | L                    | 10.5                   | 6                  | .059                | .3023         | .3106            | Mkd: Eibar 1924                                    |
| Aurtena y Cia.,          |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Eibar, Spain             |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Pietro Beretta,          | Mod. 1915-1919    | 228320     | R                    | 10.5                   | 6                  | .047                | .3038         | .3132            | Gun dated 1930.                                    |
| Gardone V.T.,            | Mod. 1934         | 550483     | R                    | 10.0                   | 6                  | .052                | .3023         | .3119            | Gun dated 1944.                                    |
| Brescia, Italy           | Mod. 1934         | 566605     | R                    | 10.0                   | 6                  | .047                | .3022         | .3112            | Gun dated 1944.                                    |
| "                        | "                 | 631418     | R                    | 9.9                    | 6                  | .047                | .3021         | .3115            | Unused gun. Not dated.                             |
| "                        | "                 | 767055     | R                    | 10.2                   | 6                  | .052                | .3020         | .3104            | Gun dated 1951.                                    |
| "                        | "                 | 830395     | R                    | 10.1                   | 6                  | .050                | .3020         | .3107            | Gun dated 1953.                                    |
| "                        | "                 | 836351     | R                    | 10.1                   | 6                  | .050                | .3021         | .3105            | Gun dated 1953.                                    |
| "                        | "                 | 879262     | R                    | 10.0                   | 6                  | .050                | .3023         | .3106            | Gun dated 1956.                                    |
| "                        | "                 | 889816     | R                    | 10.0                   | 6                  | .050                | .3020         | .3100            | Gun dated 1956.                                    |
| Bernardon-Martin,        | Pocket Auto       | 3337       | R                    | 9.7                    | 4                  | .084                | .3024         | .3174            |                                                    |
| St. Etienne, France      |                   |            |                      |                        |                    |                     |               |                  |                                                    |
| Waffenfabrik Bern,       | Luger 06/29       | 52475      | R                    | 9.9                    | 4                  | .112                | .3016         | .3105            | Parts made by S.I.G.<br>at Neuhausen.              |
| Bern, Switzerland        |                   |            |                      |                        |                    |                     |               |                  | Dated 1959                                         |
| Vincenzo Bernardelli,    | Mod. 60           | 40108      | R                    | 17.6                   | 6                  | .060                | .3017         | .3101            |                                                    |
| Gardone V.T.             | "                 | A-51993    | R                    | 9.8                    | 6                  | .042                | .3043         | .3133            |                                                    |
| (Brescia), Italy         | Pre Mod. 60       | 12673      | R                    | 10.0                   | 6                  | .054                | .2969         | .3095            | 5-7/8" barrel.<br>Dated 1952.                      |
| "                        | "                 | 20976      | R                    | 9.9                    | 6                  | .053                | .2979         | .3124            | Dated 1956.                                        |
| Bohmische Waffenfabrik,  | Czech Mod. 27     | 45025      | R                    | 9.9                    | 6                  | .054                | .3017         | .3093            | Pre-World War II<br>production.                    |
| Prague,                  | "                 | 99860      | R                    | 9.85                   | 6                  | .051                | .3016         | .3085            | "                                                  |
| Czechoslovakia           | "                 | 117034     | R                    | 9.9                    | 6                  | .054                | .3020         | .3091            | "                                                  |
| "                        | "                 | 235091     | R                    | 9.9                    | 6                  | .051                | .3020         | .3099            | "                                                  |
| "                        | "                 | 384416     | R                    | 9.9                    | 6                  | .045                | .3020         | .3093            | World War II<br>Production.                        |
| "                        | "                 | 429334     | R                    | 9.9                    | 6                  | .053                | .3023         | .3095            | "                                                  |
| "                        | "                 | 479607     | R                    | 9.9                    | 6                  | .056                | .3021         | .3090            | "                                                  |
| "                        | "                 | 486949     | R                    | 9.8                    | 6                  | .051                | .3021         | .3105            | Gun dated 1945.                                    |
| "                        | "                 | Removed    | R                    | 9.9                    | 6                  | .046                | .3015         | .3093            |                                                    |
| Česka Zbrojovka-         |                   | 578374     | R                    | 9.9                    | 6                  | .051                | .3020         | .3090            | Post-World War II.                                 |
| Narodní Podnik,          | Czech Mod. 50     | B-61224    | R                    | 9.9                    | 6                  | .057                | .3023         | .3093            |                                                    |
| Strakonice,              |                   | B-61268    | R                    | 9.7                    | 6                  | .055                | .3021         | .3093            |                                                    |
| Czechoslovakia           |                   |            |                      |                        |                    |                     |               |                  |                                                    |

*Additional measurements*

| Manufacturer                                                                   | Model (or Name)            | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                                                                              |
|--------------------------------------------------------------------------------|----------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|------------------------------------------------------------------------------------------------------|
| Deutsche Waffen u.<br>Munitionsfabriken,<br>Berlin, Germany                    | Luger, Mod. 1908           | 86135      | R                    | 9.6                    | 4                  | .111                | .3035         | .3125            | Pre-World War I                                                                                      |
|                                                                                |                            | 3927-p     | R                    | 9.9                    | 4                  | .110                | .3007         | .3111            |                                                                                                      |
| Deutsche Werke,<br>Erfurt, Germany                                             | Ortgies                    | 61680      | R                    | 8.0                    | 6                  | .029                | .3026         | .3146            | Has safety button.                                                                                   |
|                                                                                | "                          | 131743     | R                    | 7.95                   | 6                  | .031                | .3031         | .3148            | No safety button.                                                                                    |
|                                                                                | "                          | 142193     | R                    | 7.9                    | 6                  | .030                | .3024         | .3141            | "                                                                                                    |
|                                                                                | "                          | 154651     | R                    | 7.9                    | 6                  | .032                | .3018         | .3134            | "                                                                                                    |
|                                                                                | "                          | 223199     | R                    | 7.9                    | 6                  | .028                | .3020         | .3130            | "                                                                                                    |
|                                                                                | "                          | 242734     | R                    | 7.9                    | 6                  | .031                | .3027         | .3125            | "                                                                                                    |
| East German Unknown                                                            | Copy of Walther<br>Mod. PP | 04537      | R                    | 9.95                   | 6                  | .050                | .3015         | .3097            |                                                                                                      |
| Echave y Arizmendi,<br>Eibar, Spain                                            | "Bronco" Mod.<br>1918      | 10832      | L                    | 10.3                   | 6                  | .053                | .3017         | .3117            |                                                                                                      |
| Echave, Arizmendi y Cia.<br>(Trade name)                                       | Mod. GZ                    | 23553      | R                    | 15.5                   | 6                  | .055                | .3012         | .3106            |                                                                                                      |
| ECHASA EIBAR),<br>Eibar, Spain                                                 | "                          | 35627      | R                    | 19.5                   | 6                  | .061                | .3014         | .3096            | Mkd: DICKSON<br>SPECIAL AGENT.                                                                       |
| Hijos de A.<br>Echeverria,<br>Eibar, Spain                                     | "RUBY" Type                | 36380      | R                    | 17.8                   | 6                  | .064                | .3007         | .3107            |                                                                                                      |
| Bonifacio Echeverria,<br>Eibar, Spain                                          | Izarra                     | 62928      | L                    | 10.3                   | 6                  | .048                | .3012         | .3102            | Made during<br>World War I                                                                           |
|                                                                                | STAR-Mod. I                | 32154      | L                    | 10.3                   | 6                  | .050                | .3013         | .3098            |                                                                                                      |
|                                                                                |                            | 0294       | R                    | 10.5                   | 6                  | .030                | .3008         | .3084            |                                                                                                      |
|                                                                                |                            | 61164      | R                    | 10.4                   | 6                  | .032                | .3016         | .3102            | A variant of Mod. I.<br>Erroneously marked<br>STAR CAL 9 M M<br>(.380)                               |
|                                                                                | STAR Mod. H                | 152738     | R                    | 10.4                   | 6                  | .087                | .3004         | .3089            |                                                                                                      |
|                                                                                | STAR Mod. SI               | 389789     | R                    | 12.7                   | 6                  | .059                | .3026         | .3091            |                                                                                                      |
| Esperanza y Unceta,<br>Guernica, Spain                                         | Astra Mod. 1915            | 29327      | L                    | 9.55                   | 6                  | .047                | .3011         | .3101            |                                                                                                      |
| Fab. Nationale d'Armes<br>de Guerre,<br>Herstal, Belgium                       | Browning Mod. 1910         | 43282      | R                    | 9.55                   | 6                  | .032                | .3014         | .3117            |                                                                                                      |
|                                                                                | "                          | (166)      | R                    | 9.7                    | 6                  | .031                | .3016         | .3094            | Has Portuguese<br>Naval marking.<br>No. 166 probably<br>a contract number.                           |
|                                                                                | "                          | 467890     | R                    | 9.6                    | 6                  | .027                | .3016         | .3100            |                                                                                                      |
|                                                                                | "                          | 496928     | R                    | 9.45                   | 6                  | .030                | .3018         | .3098            |                                                                                                      |
|                                                                                | Browning Mod. 1922         | 66381      | R                    | 9.6                    | 6                  | .027                | .3021         | .3097            | Has German<br>acceptance marks.                                                                      |
|                                                                                | "                          | 92559      | R                    | 9.7                    | 6                  | .028                | .3014         | .3112            | "                                                                                                    |
|                                                                                | "                          | 192184     | R                    | 9.5                    | 6                  | .028                | .3014         | .3105            | "                                                                                                    |
|                                                                                | "                          | 200579     | R                    | 9.7                    | 6                  | .027                | .3018         | .3093            | "                                                                                                    |
|                                                                                | "                          | 7544C      | R                    | 9.75                   | 6                  | .030                | .3010         | .3093            | "                                                                                                    |
|                                                                                | "                          | 97708b     | R                    | 9.75                   | 6                  | .028                | .3020         | .3094            | "                                                                                                    |
| Fegyvergyar,<br>Budapest, Hungary                                              | Frommer 1910               | 7000       | R                    | 10.0                   | 4                  | .113                | .3017         | .3133            |                                                                                                      |
|                                                                                | "                          | 8347       | R                    | 9.9                    | 4                  | .111                | .3015         | .3155            |                                                                                                      |
|                                                                                | "Pistole Mod. 37"          | C-115629   | R                    | 7.9                    | 6                  | .040                | .3021         | .3110            | Has commercial markings.                                                                             |
|                                                                                | Frommer BABY               | 26620      | R                    | 10.1                   | 4                  | .106                | .3019         | .3129            |                                                                                                      |
|                                                                                | Frommer STOP               | 1896       | R                    | 9.5                    | 4                  | .114                | .3014         | .3145            |                                                                                                      |
|                                                                                | Copy of Walther<br>Mod. PP | BB12865    | R                    | 9.1                    | 6                  | .042                | .3024         | .3101            | Mkd: XXIII<br>on frame.                                                                              |
| Gabilondo y Cia.,<br>Elgoibar, Spain                                           | Plus Ultra                 | 16139      | R                    | 12.0                   | 6                  | .056                | .3022         | .3096            | 20 cartridge magazine                                                                                |
|                                                                                | Llama Mod. X               | 82292      | R                    | 12.0                   | 6                  | .040                | .3033         | .3122            |                                                                                                      |
|                                                                                | "                          | 82918      | R                    | 12.0                   | 6                  | .047                | .3028         | .3076            |                                                                                                      |
|                                                                                | Llama Mod. X-A             | 149040     | R                    | 11.9                   | 6                  | .042                | .3040         | .3094            | "Llama Especial"                                                                                     |
|                                                                                | Ruby                       | 96719      | L                    | 10.3                   | 6                  | .051                | .3012         | .3102            |                                                                                                      |
| Gabilondos y Urresti,<br>Elgoibar, Spain                                       |                            |            |                      |                        |                    |                     |               |                  |                                                                                                      |
| Industria Armi Galesi,<br>Gardone V.T.<br>(Brescia), Italy                     | Mod. 9                     | 203267     | R                    | 9.85                   | 6                  | .056                | .3012         | .3098            | Gun dated 1958.                                                                                      |
| (Presently known as<br>Soc. Ital. F.lli Galesi)                                | "                          | 203397     | R                    | 9.9                    | 6                  | .056                | .3013         | .3100            | Gun dated 1958.                                                                                      |
| Gustloff Werke,<br>Suhl, Germany                                               | Pocket Auto                | 203706     | R                    | 10.0                   | 6                  | .057                | .3014         | .3100            | Gun dated 1958.                                                                                      |
|                                                                                |                            | 205091     | R                    | 9.8                    | 6                  | .055                | .2996         | .3133            |                                                                                                      |
|                                                                                |                            | 1204       | R                    | 10.0                   | 6                  | .063                | .3015         | .3123            |                                                                                                      |
| Fab. d'Armes de Guerre,<br>Haute Precision<br>Armand Gavage,<br>Liège, Belgium | Gavage                     | 2228       | R                    | 9.8                    | 6                  | .036                | .3015         | .3047            |                                                                                                      |
| Isidore Gaztañaga,<br>Eibar, Spain                                             | "Indian"                   | 8141       | L                    | 12.2                   | 6                  | .046                | .3004         | .3095            | Same as<br>"Destroyer."                                                                              |
| H. M. Gering & Co.,<br>Arnstadt, Germany                                       | Leonhardt                  | 72367      | R                    | 9.5                    | 6                  | .043                | .3031         | .3163            |                                                                                                      |
| Hege Waffen,<br>(Exporter)<br>West Germany                                     | "HEGE"                     | BB38003    | R                    | 10.0                   | 6                  | .044                | .3028         | .3098            | Unauthorized slightly<br>modified copy of<br>Walther Mod. PP.<br>Made by Fegyvergyar<br>in Budapest. |

## Firearms identification

| Manufacturer                                                               | Model (or Name)             | Serial No.     | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam.  | Groove<br>Diam.* | Remarks                                                                       |
|----------------------------------------------------------------------------|-----------------------------|----------------|----------------------|------------------------|--------------------|---------------------|----------------|------------------|-------------------------------------------------------------------------------|
| Heckler & Koch,<br>G.m.b.H., Oberndorf,<br>a/N, Germany                    | Mod. HK4                    | 10572          | R                    | 8                      | 6                  | .038                | .3026          | .3099            | Barrel No. 400125                                                             |
| Jager & Co.,<br>Suhl, Germany                                              | Jager                       | 5530           | R                    | 8.8                    | 4                  | .050                | .3029          | .3148            |                                                                               |
| Kohout & Spol.,<br>Kynde, Czechoslovakia                                   | "Mars"                      | 9547           | R                    | 10.5                   | 6                  | .047                | .3016          | .3100            | Gun dated 1941.                                                               |
| Fr. Langenhan,<br>Zella-Mehlis,<br>Germany                                 | F.L. Selbstlader            | 2812           | R                    | 9.5                    | 4                  | .072                | .3036          | .3176            | Has open ctge. port.                                                          |
|                                                                            | "                           | 10194          | R                    | 9.6                    | 4                  | .059                | .3038          | .3156            |                                                                               |
| Mre. d'Armes Le Page,<br>Liège, Belgium                                    | Pocket Pistol               | 14642          | L                    | 9.6                    | 6                  | .043                | .3084          | .3156            |                                                                               |
| Waffenfabrik Kommer,<br>Zella-Mehlis, Germany                              | Kommer Mod. 4               | 10069          | R                    | 9.65                   | 4                  | .050                | .3004          | .3123            | Does not have ctge.<br>indicator pin.                                         |
|                                                                            | "                           | 15611          | R                    | 9.7                    | 4                  | .048                | .3020          | .3105            | Has cartridge<br>indicator pin.                                               |
| Mann Werke,<br>Suhl, Germany                                               | Mann Pocket Mod.            | 51797          | R                    | 9.6                    | 4                  | .047                | .3030          | .3122            |                                                                               |
| Waffenfabrik Mauser,<br>Oberndorf a/N,<br>Germany                          | Pocket 1914 Type            | 323            | R                    | 7.85                   | 6                  | .039                | .3025          | .3110            | From 1st run of this<br>model. Now referred<br>to as the "Humpback<br>Model." |
| (Name changed to<br>Mauser-Werke in 1922)                                  | "                           | 197515         | R                    | 7.9                    | 6                  | .041                | .3016          | .3082            |                                                                               |
|                                                                            | "                           | 225593         | R                    | 7.9                    | 6                  | .051                | .3031          | .3097            |                                                                               |
|                                                                            | "                           | 245301         | R                    | 7.9                    | 6                  | .045                | .3022          | .3086            |                                                                               |
|                                                                            | "                           | 316233         | R                    | 8.0                    | 6                  | .038                | .3029          | .3093            |                                                                               |
|                                                                            | "                           | 359572         | R                    | 7.9                    | 6                  | .045                | .3024          | .3078            | Mkd: POLITI Nr. 4700<br>(Norwegian Police)                                    |
|                                                                            | "                           | 493254         | R                    | 8.0                    | 6                  | .043                | .3015          | .3089            |                                                                               |
|                                                                            | "                           | 513330         | R                    | 7.9                    | 6                  | .053                | .3022          | .3092            |                                                                               |
|                                                                            | "                           | 611522         | R                    | 7.9                    | 6                  | .041                | .3014          | .3094            | Has German Accept. Mks.                                                       |
|                                                                            | Pocket Mod. HSc             | 720522         | R                    | 7.9                    | 6                  | .044                | .3025          | .3095            |                                                                               |
|                                                                            | "                           | 735669         | R                    | 7.8                    | 6                  | .039                | .3021          | .3096            |                                                                               |
|                                                                            | "                           | 758488         | R                    | 7.8                    | 6                  | .041                | .3022          | .3096            |                                                                               |
|                                                                            | "                           | 859012         | R                    | 7.9                    | 6                  | .050                | .3026          | .3094            |                                                                               |
|                                                                            | "                           | 948135         | R                    | 9.0                    | 6                  | .047                | .3030          | .3097            | Unusual rifling twist                                                         |
| August Menz,<br>Suhl, Germany                                              | Menz Mod. III               | 019            | R                    | 9.5                    | 6                  | .040                | .3023          | .3111            |                                                                               |
| Metallwaren, Waffen u.<br>Maschinenfabriken,<br>A.G., Budapest,<br>Hungary | Menz Mod. 1934<br>Mod. 37   | 492983<br>5175 | R<br>R               | 7.9<br>7.9             | 6<br>6             | .039<br>.044        | .3023<br>.3024 | .3088<br>.3091   | Gun dated 1941.                                                               |
|                                                                            | "                           | 23055          | R                    | 7.9                    | 6                  | .042                | .3020          | .3100            | Gun dated 1941.                                                               |
|                                                                            | "                           | 50023          | R                    | 7.9                    | 6                  | .037                | .3022          | .3090            | Gun dated 1943.                                                               |
|                                                                            | "                           | 56927          | R                    | 7.9                    | 6                  | .049                | .3033          | .3091            | Gun dated 1943.                                                               |
| Oesterr. Waffenfabriks,<br>Ges., Steyr, Austria                            | Steyr Mod. 1908             | 3995           | R                    | 9.9                    | 6                  | .036                | .3023          | .3151            |                                                                               |
|                                                                            | "                           | 31237          | R                    | 9.8                    | 6                  | .038                | .3023          | .3139            |                                                                               |
|                                                                            | "                           | 39553          | R                    | 9.85                   | 6                  | .030                | .3029          | .3145            |                                                                               |
| Anc. Etablissements<br>Pieper, Herstal, Belgium                            | Bayard Pocket<br>Model 1909 | 134711         | L                    | 12.7                   | 6                  | .036                | .3033          | .3093            |                                                                               |
|                                                                            | "                           | 259857         | L                    | 10.1                   | 6                  | .039                | .3025          | .3093            |                                                                               |
| N. Pieper,<br>Herstal, Belgium                                             | N. Pieper Pocket Mod.       | B-1583         | R                    | 9.5                    | 6                  | .036                | .3034          | .3136            |                                                                               |
| Mre. d'Armes des<br>Pyrénées, Hendaye,<br>France                           | "UNIQUE" Cat. No.17         | 412227         | L                    | 12.3                   | 6                  | .064                | .3019          | .3105            | Model not indicated<br>on gun.                                                |
|                                                                            | Military Mod.               | 39543          | L                    | 12.1                   | 6                  | .051                | .3016          | .3113            | War production, under<br>German supervision.                                  |
|                                                                            | "                           | 107919         | L                    | 12.4                   | 6                  | .043                | .3017          | .3098            | Post W.W. II production.<br>Mkd: RF (Republic<br>Francaise)                   |
|                                                                            | "                           | 109581         | L                    | 12.0                   | 6                  | .045                | .3025          | .3098            | "                                                                             |
|                                                                            | "                           | 113401         | L                    | 12.0                   | 6                  | .050                | .3020          | .3100            | "                                                                             |
| Retolaza Hermanos,<br>Eibar, Spain                                         | Paramount                   | 27113          | L                    | 10.3                   | 6                  | .045                | .3014          | .3097            |                                                                               |
|                                                                            | "                           | 44040          | L                    | 10.3                   | 6                  | .039                | .2994          | .3115            |                                                                               |
| Rheinische Waffen u.<br>Maschinenfabrik,<br>Sommerda, Germany              | Dreyse                      | 9179           | R                    | 17.1                   | 4                  | .040                | .3025          | .3132            | Gun dated 1920.                                                               |
|                                                                            | "                           | 216550         | R                    | 16.7                   | 4                  | .043                | .3020          | .3109            |                                                                               |
| Rheinsche Metallwaren u.<br>Maschinenfabrik,<br>Sommerda, Germany          | Rheinmatall                 | 261443         | R                    | 16.65                  | 4                  | .033                | .3018          | .3096            |                                                                               |
| Rigarmi,<br>Brescia, Italy                                                 | Rigarmi                     | 12831          | R                    | 9.6                    | 6                  | .075                | .3070          | .3140            | New, unused gun.                                                              |
| Robar et DeKerkhove,<br>Liège, Belgium                                     | Melior Old Mod.             | 22774          | R                    | 9.7                    | 5                  | .046                | .3028          | .3100            | Also known as "Jieffeco"<br>Sold by Jannsen<br>et Fils.                       |
| Robar et Cie.,<br>(Formerly Robar et<br>DeKerkhove) Liège,<br>Belgium      | Melior Mod. 1920            | 47720          | R                    | 9.6                    | 5                  | .056                | .2990          | .3045            | Also known as the<br>"New Model"                                              |

*Additional measurements*

| Manufacturer                                                                  | Model (or Name)                | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                     |
|-------------------------------------------------------------------------------|--------------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|---------------------------------------------|
| Mre. d'Armes de<br>St. Etienne,<br>St. Etienne, France                        | French Service<br>Pistol-1935S | F-2703     | R                    | 9.9                    | 4                  | .060                | .3014         | .3121            |                                             |
| J. P. Sauer u. Sohn,<br>Suhl, Germany                                         | Roth-Sauer                     | 384 A      | R                    | 17.2                   | 6                  | .036                | .3073         | .3123            |                                             |
|                                                                               | Roth-Sauer                     | B-712      | R                    | 17.1                   | 6                  | .024                | .3054         | .3112            |                                             |
|                                                                               | 1st Model (1913)               | 138561     | R                    | 14.4                   | 6                  | .033                | .3021         | .3107            |                                             |
|                                                                               | "                              | 161088     | R                    | 14.3                   | 6                  | .033                | .3011         | .3091            |                                             |
|                                                                               | "                              | 201088     | R                    | 14.4                   | 6                  | .033                | .3025         | .3113            |                                             |
|                                                                               | Mod. 1930                      | 199608     | R                    | 14.2                   | 6                  | .051                | .3022         | .3110            |                                             |
|                                                                               | Mod. 38(H)                     | 260716     | R                    | 9.5                    | 6                  | .047                | .3010         | .3110            |                                             |
|                                                                               | "                              | 334936     | R                    | 9.5                    | 4                  | .056                | .3020         | .3104            | Has German acceptance<br>marks.             |
|                                                                               | "                              | 350522     | R                    | 9.45                   | 4                  | .061                | .3021         | .3084            | "                                           |
|                                                                               | "                              | 353571     | R                    | 9.6                    | 4                  | .060                | .3016         | .3104            | "                                           |
|                                                                               | "                              | 446072     | R                    | 9.5                    | 4                  | .064                | .3016         | .3102            | "                                           |
|                                                                               | "                              | 509600     | R                    | 9.4                    | 4                  | .065                | .3025         | .3111            |                                             |
| A. W. Schwarzlose,<br>G.m.b.H., Berlin,<br>Germany                            | Schwarzlose Mod. 1908          | 1148       | R                    | 7.9                    | 4                  | .106                | .2957         | .3028            |                                             |
|                                                                               | "                              | 1234       | R                    | 7.9                    | 4                  | .110                | .2957         | .3035            |                                             |
|                                                                               | "                              | 4006       | R                    | 8.0                    | 4                  | .112                | .2948         | .3028            |                                             |
|                                                                               | "                              | 6489       | R                    | 7.9                    | 4                  | .097                | .2960         | .3034            |                                             |
| Smith and Wesson,<br>Springfield, Mass.                                       | .32 Auto                       | 664        | R                    | 12.0                   | 6                  | .054                | .3032         | .3123            |                                             |
| Société Alsacienne des<br>Constructions Mécaniques,<br>Cholet, France         | French Service<br>Pistol 1935A | 2283-A     | R                    | 9.9                    | 4                  | .081                | .3021         | .3139            |                                             |
|                                                                               | "                              | 4994       | R                    | 9.9                    | 4                  | .074                | .3017         | .3137            | German acceptance mark.                     |
|                                                                               | "                              | 2589-A     | R                    | 9.9                    | 4                  | .081                | .3020         | .3130            |                                             |
| Waffenfabrik Steyr,<br>Steyr, Austria                                         | Mannlicher Mod. 1905           | 4619       | R                    | 10.1                   | 4                  | .093                | .3042         | .3160            |                                             |
| Voino Tekhnicheskii<br>Zavod, Kragujevic,<br>Yugoslavia                       |                                | 1005       | L                    | 10.2                   | 6                  | .052                | .3015         | .3112            | Similar to Spanish<br>"Eibar Type."         |
| Steyr-Daimler-Puch,<br>Steyr, Austria                                         | Mod. SP                        | 898        | R                    | 9.95                   | 6                  | .042                | .3017         | .3108            |                                             |
| Franz Stock,<br>Berlin, Germany                                               | Stock                          | 31962      | R                    | 9.5                    | 4                  | .062                | .3003         | .3135            |                                             |
| Carl Walther<br>Waffenfabrik,<br>Zella St. Blasii,<br>Germany                 | Mod. 4                         | 48953      | R                    | 8.8                    | 4                  | .049                | .3002         | .3123            | Early issue, with<br>exposed trigger bar.   |
|                                                                               | "                              | 77088      | R                    | 10.0                   | 4                  | .076                | .3012         | .3118            | "                                           |
|                                                                               | "                              | 263955     | R                    | 9.7                    | 6                  | .034                | .3022         | .3124            | Later issue, with<br>concealed trigger bar. |
| Carl Walther<br>Waffenfabrik,<br>Zella-Mehlis, Germany                        | Mod. PP                        | 204287-P   | R                    | 10.0                   | 6                  | .053                | .3021         | .3110            |                                             |
|                                                                               | "                              | 225534-P   | R                    | 10.3                   | 6                  | .063                | .3022         | .3102            |                                             |
|                                                                               | "                              | 234555-P   | R                    | 10.0                   | 6                  | .055                | .3021         | .3105            |                                             |
| (Name of city changed<br>in 1919)                                             | "                              | 284133-P   | R                    | 10.0                   | 6                  | .055                | .3022         | .3114            |                                             |
|                                                                               | "                              | 359282-P   | R                    | 10.0                   | 6                  | .056                | .3020         | .3097            |                                             |
| M. Zulaica y Cia.,<br>Eibar, Spain                                            | Royal                          | 45157      | R                    | 12.0                   | 6                  | .071                | .3034         | .3110            | Some specimens have<br>left hand twist.     |
| <b>Caliber: 7.8 mm</b><br>Theodor Bergmann,<br>Gaggenau, Germany              | Bergmann--Mod.<br>1897 (No. 5) | 156        | R                    | 9.5                    | 4                  | .045                | .3005         | .3080            |                                             |
| <b>Caliber: .35 cal.</b><br>Smith & Wesson,<br>Springfield, Mass.             | Mod. 1913 Type II              | 5382       | R                    | 12.0                   | 6                  | .061                | .3131         | .3231            | Used ".35 S&W"<br>cartridge.                |
|                                                                               | "                              | 7709       | R                    | 12.0                   | 6                  | .062                | .3101         | .3221            | "                                           |
| <b>Caliber: 8mm</b><br>Kokura Arsenal,<br>Kokura, Japan                       | Nambu-1904 Type                | 8153       | R                    | 11.0                   | 6                  | .037                | .3155         | .3267            | Has grip safety.                            |
|                                                                               | Nambu-1914 Type                | 1929       | R                    | 12.5                   | 6                  | .028                | .3164         | .3285            | Early issue.                                |
|                                                                               | Nambu-1914(1925)<br>Type       | 15656      | R                    | 11.3                   | 6                  | .044                | .3161         | .3265            | Gun dated Oct. 1930.                        |
| Nagoya Arsenal,<br>Nagoya, Japan                                              | Mod. 94 (1934)                 | 8384       | R                    | 11.0                   | 6                  | .031                | .3162         | .3282            | Gun dated May 1939.                         |
|                                                                               | "                              | 26277      | R                    | 11.05                  | 6                  | .035                | .3154         | .3272            | Gun dated June 1943.                        |
|                                                                               | "                              | 50309      | R                    | 11.0                   | 6                  | .041                | .3157         | .3263            | Gun dated June 1944.                        |
|                                                                               | "                              | 97861      | R                    | 11.0                   | 6                  | .042                | .3156         | .3275            | Gun dated Nov., 1943.                       |
|                                                                               | "                              | 11488      | R                    | 11.1                   | 6                  | .045                | .3160         | .3267            | Gun dated Jan., 1944<br>(Round bolt nut)    |
| Waffenfabrik Steyr,<br>Steyr, Austria                                         | Roth-Steyr                     | 3824       | R                    | 9.9                    | 4                  | .101                | .3139         | .3307            | Has Vienna proof mark.                      |
|                                                                               | "                              | 4695       | R                    | 9.9                    | 4                  | .100                | .3131         | .3303            | "                                           |
| <b>Caliber: .38 and .380</b><br>Colt's Pt. F. A. Mfg. Co.,<br>Hartford, Conn. | 1902 Mod.                      | 8583       | L                    | 17.6                   | 6                  | .036                | .3490         | .3598            |                                             |
|                                                                               | "                              | 12526      | L                    | 17.7                   | 6                  | .040                | .3488         | .3572            |                                             |
|                                                                               | "                              | 14392      | L                    | 17.2                   | 6                  | .031                | .3508         | .3568            |                                             |

# Firearms identification

| Manufacturer              | Model (or Name)  | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                    |
|---------------------------|------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|----------------------------|
| Colt's Pt. F. A. Mfg. Co. | 1903 Pocket Mod. | 886        | L                    | 15.2                   | 6                  | .055                | .3480         | .3563            |                            |
|                           | "                | 45343      | L                    | 16.3                   | 6                  | .035                | .3484         | .3560            |                            |
|                           | "                | 125978     | L                    | 16.1                   | 6                  | .058                | .3480         | .3571            |                            |
|                           | Super 38         | 73176      | L                    | 16.1                   | 6                  | .056                | .3480         | .3565            |                            |
|                           | "                | 111223     | L                    | 16.1                   | 6                  | .056                | .3489         | .3588            | New, unused gun.           |
|                           | "                | 176460     | L                    | 16.1                   | 6                  | .060                | .3496         | .3554            |                            |
|                           | Officers Model   | 921286     | L                    | 13.85                  | 6                  | .059                | .3465         | .3544            | .38 Special.               |
|                           | Match            |            |                      |                        |                    |                     |               |                  |                            |
| Remington Arms-UMC        | National Match   | 2634MR     | L                    | 13.8                   | 6                  | .060                | .3467         | .3544            |                            |
| Co., Ilion, N. Y.         | PA-M51           | PA-51817   | R                    | 16.1                   | 7                  | .038                | .3489         | .3531            | .380 cartridge             |
| Savage Arms Co.,          | Mod. 1907-19     | 14521-B    | R                    | 16.1                   | 6                  | .046                | .3493         | .3557            | .380 cartridge             |
| Utica, N. Y.              | Mod. 1915        | None       | R                    | 12.1                   | 6                  | .053                | .3490         | .3565            | "                          |
| Webley & Scott, Ltd.,     | Webley & Scott   | 62918      | R                    | 10.0                   | 6                  | .051                | .3505         | .3605            | Hammerless. Has            |
| London & Birmingham,      | Hammer Mod.      |            |                      |                        |                    |                     |               |                  | grip safety .38 cal.       |
| England                   | "                | 111428     | R                    | 10.2                   | 7                  | .041                | .3519         | .3657            | Hammerless. No grip        |
|                           |                  |            |                      |                        |                    |                     |               |                  | safety. Mkd. .380 cal.     |
| <b>Caliber: 9 mm.</b>     |                  |            |                      |                        |                    |                     |               |                  |                            |
| Hijos de Calixto          | JO-LO-AR         | 331        | R                    | 19.5                   | 6                  | .050                | .3508         | .3650            | Gun dated 1924.            |
| Arrizabalaga, Eibar,      | "                | 4829       | R                    | 20.3                   | 6                  | .058                | .3505         | .3595            |                            |
| Spain                     | "                | 20209      | R                    | 10.9                   | 6                  | .052                | .3501         | .3593            |                            |
| Astra-Unceta y Cia.       | Astra-M 300      | 510144     | R                    | 10.2                   | 6                  | .053                | .3492         | .3607            | Mkd. Unceta y Cia.         |
| Guernica, Spain           | "                | 530849     | R                    | 9.3                    | 6                  | .056                | .3502         | .3626            |                            |
| (Later known as           | "                | 556476     | R                    | 9.4                    | 6                  | .052                | .3500         | .3596            | Has German acceptance      |
| Unceta y Cia.)            | "                |            |                      |                        |                    |                     |               |                  | mark.                      |
|                           | "                | 588587     | R                    | 9.4                    | 6                  | .051                | .3501         | .3599            |                            |
|                           | Astra M 400      | 3433       | R                    | 9.4                    | 6                  | .061                | .3489         | .3602            | Has German acceptance      |
|                           | "                |            |                      |                        |                    |                     |               |                  | mark.                      |
|                           | "                | 8681       | R                    | 9.4                    | 6                  | .050                | .3482         | .3587            | "                          |
|                           | "                |            |                      |                        |                    |                     |               |                  | Chambered for German       |
|                           | "                | 14749      | R                    | 10.4                   | 6                  | .051                | .3490         | .3585            | .08 cartridge.             |
|                           | "                |            |                      |                        |                    |                     |               |                  | Mkd. RE (Republica         |
|                           | "                |            |                      |                        |                    |                     |               |                  | Española) on barrel        |
|                           | "                |            |                      |                        |                    |                     |               |                  | and magazine.              |
|                           | Astra M 600      | 9975       | R                    | 9.4                    | 6                  | .050                | .3476         | .3581            | Mkd: Unceta y Cia.         |
|                           | Astra m 600 43   | 35460      | R                    | 9.6                    | 6                  | .059                | .3483         | .3592            | 9 mm Parabellum            |
|                           | Astra M 3000     | 677170     | R                    | 9.6                    | 6                  | .051                | .3517         | .3619            | Mkd: Unceta y Cia.         |
|                           | Astra-M 4000     | 795677     | R                    | 9.6                    | 6                  | .054                | .3500         | .3601            |                            |
| Pietro Beretta,           | Mod. 1915        | 15555      | R                    | 10.0                   | 6                  | .051                | .3536         | .3620            |                            |
| Gardone V.T. (Brescia),   | Mod. 1934        | 524494     | R                    | 10.0                   | 6                  | .040                | .3482         | .3582            | Gun dated 1936.            |
| Italy                     | "                | 631479     | R                    | 13.0                   | 6                  | .048                | .3492         | .3596            | Gun dated 1937.            |
|                           | "                | 742977     | R                    | 13.0                   | 6                  | .050                | .3493         | .3583            | Gun dated 1939.            |
|                           | "                | 844024     | R                    | 10.0                   | 6                  | .046                | .3485         | .3590            | Gun dated 1940.            |
|                           | "                | 914004     | R                    | 10.0                   | 6                  | .056                | .3486         | .3584            | Gun dated 1941.            |
|                           | "                | 961464     | R                    | 9.9                    | 6                  | .052                | .3502         | .3580            | Gun dated 1942.            |
|                           | "                | F-67413    | R                    | 9.9                    | 6                  | .045                | .3486         | .3590            | Gun dated 1942.            |
|                           | "                | 983853     | R                    | 9.9                    | 6                  | .050                | .3497         | .3583            | Gun dated 1942.            |
|                           | "                | G-33595    | R                    | 9.8                    | 6                  | .051                | .3492         | .3598            | No name, date, or proof    |
|                           | "                |            |                      |                        |                    |                     |               |                  | marks.                     |
|                           | "                | 990749     | R                    | 9.9                    | 6                  | .044                | .3490         | .3587            | Gun dated 1942.            |
|                           | Mod. 1950        | 1003/50    | R                    | 10.0                   | 6                  | .048                | .3490         | .3588            | Gun dated 1950.            |
|                           | Mod. 1951        | 30660      | R                    | 9.9                    | 6                  | .044                | .3488         | .3566            |                            |
| Vincenzo Bernardelli      | Mod. 60          | 5816       | R                    | 17.8                   | 6                  | .051                | .3513         | .3610            | Mkd: XXII                  |
| Gardone V.T.              |                  |            |                      |                        |                    |                     |               |                  |                            |
| (Brescia), Italy          |                  |            |                      |                        |                    |                     |               |                  |                            |
| Česka st. Zbrojovka Brno. | 9mm N            | 2297       | R                    | 9.9                    | 6                  | .053                | .3464         | .3558            | Designed by Nickl.         |
| Brno, Czechoslovakia      | "                | 7764       | R                    | 9.9                    | 6                  | .064                | .3467         | .3568            | Gun not dated.             |
|                           | "                | 16582      | R                    | 9.9                    | 6                  | .060                | .3461         | .3552            | Gun dated 1923.            |
|                           | "                | 19856      | R                    | 10.0                   | 6                  | .062                | .3467         | .3562            | Gun dated 1923.            |
|                           | "                | 20902      | R                    | 9.9                    | 6                  | .061                | .3462         | .3559            |                            |
| Česka Zbrojovka,          | Czech-Mod. 1924  | 123847     | R                    | 10.1                   | 6                  | .053                | .3450         | .3584            | Mkd: Česka Zbrojovka       |
| Prague, Czechoslovakia    | "                |            |                      |                        |                    |                     |               |                  | A.S. v Praze.              |
|                           | "                | 141737     | R                    | 10.0                   | 6                  | .061                | .3458         | .3554            |                            |
|                           | Czech-Mod. 1938  | 287960     | R                    | 10.0                   | 6                  | .055                | .3503         | .3623            | Mkd: Česka Zbrojovka       |
|                           | "                |            |                      |                        |                    |                     |               |                  | A.K.C. Spol. Praze         |
|                           | "                |            |                      |                        |                    |                     |               |                  | Gun dated 1939.            |
|                           | "                | 241150     | R                    | 10.0                   | 6                  | .064                | .3502         | .3584            | Specimen has safety lever. |
|                           | "                | 281869     | R                    | 10.1                   | 6                  | .059                | .3508         | .3604            | Mkd: Česka Zbrojovka       |
|                           |                  |            |                      |                        |                    |                     |               |                  | A.K.C. Spol. Praze         |
|                           |                  |            |                      |                        |                    |                     |               |                  | Gun dated 1939.            |
| Mre. d'Armes de           | French Service   | A-8626     | L                    | 10.7                   | 4                  | .098                | .3456         | .3566            |                            |
| Chatellerault,            | Pistol M1950     |            |                      |                        |                    |                     |               |                  |                            |
| Chatellerault, France     | "                | B-2181     | L                    | 10.7                   | 4                  | .097                | .3450         | .3550            |                            |
| Colt's Manufacturing Co., | Commander        | 2431-LW    | L                    | 16.0                   | 6                  | .057                | .3485         | .3567            | New, unused gun.           |
| Hartford, Conn.           |                  |            |                      |                        |                    |                     |               |                  |                            |

*Additional measurements*

| Manufacturer                                                                                            | Model (or Name)                | Serial No. | Dir'n<br>of<br>Twist | Inches<br>of<br>1 Turn | No.<br>of<br>Lands | Width<br>of<br>Land | Bore<br>Diam. | Groove<br>Diam.* | Remarks                                                            |
|---------------------------------------------------------------------------------------------------------|--------------------------------|------------|----------------------|------------------------|--------------------|---------------------|---------------|------------------|--------------------------------------------------------------------|
| Deutsche Waffen u.<br>Munitionsfabrik,<br>Berlin, Germany                                               | Luger 1908                     | 5742       | R                    | 9.5                    | 6                  | .083                | .3483         | .3602            | Dated (reworked) 1924.                                             |
|                                                                                                         | Luger--08/14                   | 6893       | R                    | 9.9                    | 6                  | .084                | .3490         | .3590            | Gun dated 1917.                                                    |
|                                                                                                         | Luger 1908                     | 7338-b     | R                    | 9.9                    | 6                  | .080                | .3482         | .3577            | Navy model.                                                        |
|                                                                                                         | "                              | 4895-g     | R                    | 9.9                    | 6                  | .081                | .3483         | .3600            | Gun dated 1941.                                                    |
|                                                                                                         | "                              | 7761-j     | R                    | 9.9                    | 6                  | .070                | .3487         | .3582            | Gun dated 1918.                                                    |
|                                                                                                         | "                              | 3927-p     | R                    | 9.9                    | 6                  | .083                | .3476         | .3588            | Gun dated 1918.                                                    |
| Deutsche-Werke,<br>Erfurt, Germany                                                                      | "                              | 6438-t     | R                    | 9.9                    | 6                  | .082                | .3484         | .3590            | Had barrel only.                                                   |
|                                                                                                         | "                              | 6871-y     | R                    | 9.8                    | 6                  | .081                | .3477         | .3577            |                                                                    |
|                                                                                                         | Ortgies                        | 28417      | R                    | 9.6                    | 6                  | .029                | .3524         | .3607            | Gun dated 1942.                                                    |
|                                                                                                         | "                              | 59245      | R                    | 9.5                    | 6                  | .042                | .3506         | .3604            |                                                                    |
|                                                                                                         | Echave, Arizmendi y Cia., FAST | 65243      | R                    | 14.0                   | 6                  | .077                | .3476         | .3555            |                                                                    |
|                                                                                                         | S.A., (Trade Name<br>ECHASA)   |            |                      |                        |                    |                     |               |                  |                                                                    |
| Eibar, Spain                                                                                            |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
| Bonifacio Echeverria,<br>Eibar, Spain                                                                   | STAR--Mod. DK                  | 585112     | R                    | 12.6                   | 6                  | .054                | .3484         | .3570            |                                                                    |
|                                                                                                         | STAR--Mod. M                   | 767633     | R                    | 12.8                   | 6                  | .063                | .3488         | .3566            | .38 Long ctge.                                                     |
|                                                                                                         | STAR--Mod. S                   | 781177     | R                    | 12.6                   | 6                  | .061                | .3479         | .3549            |                                                                    |
|                                                                                                         | STAR Modelo Militar            | 721        | R                    | 10.6                   | 6                  | .056                | .3493         | .3547            | Early type.                                                        |
| Erfurt, Arsenal,<br>Erfurt, Germany                                                                     | "                              | 2480       | R                    | 12.2                   | 6                  | .060                | .3482         | .3552            | "                                                                  |
|                                                                                                         | Luger 1908                     | 6669       | R                    | 9.95                   | 6                  | .073                | .3475         | .3590            | Gun dated 1912.                                                    |
|                                                                                                         | "                              | 7275       | R                    | 9.8                    | 6                  | .080                | .3483         | .3580            | Gun dated 1914.                                                    |
|                                                                                                         | "                              | 8406-d     | R                    | 9.8                    | 6                  | .076                | .3481         | .3597            | Gun dated 1916.                                                    |
| Esperanza y Unceta,<br>Guernica, Spain                                                                  | Luger 08/14                    | 8838       | R                    | 9.9                    | 6                  | .081                | .3484         | .3595            | Gun dated 1914.                                                    |
|                                                                                                         | Campo Giro M1913               | 1355       | R                    | 9.5                    | 6                  | .060                | .3481         | .3590            |                                                                    |
|                                                                                                         | Campo Giro M1913-16            | 6559       | R                    | 9.5                    | 6                  | .066                | .3507         | .3594            |                                                                    |
|                                                                                                         | Browning--1903                 | 1851       | R                    | 15.85                  | 6                  | .037                | .3521         | .3623            |                                                                    |
| Fab. Nationale<br>d'Armes de Guerre,<br>Herstal, Belgium                                                | "                              | 52076      | R                    | 16.05                  | 6                  | .035                | .3526         | .3615            | Also known as<br>"Browning Long"                                   |
|                                                                                                         | "                              | 17252      | R                    | 15.8                   | 6                  | .038                | .3520         | .3596            | Has Yugoslav marking.                                              |
|                                                                                                         | Browning                       | 560532     | R                    | 9.6                    | 6                  | .029                | .3510         | .3602            | Has Russian marking.                                               |
|                                                                                                         | Mod. 1910                      |            |                      |                        |                    |                     |               |                  | New gun. Mkd: Browning<br>Arms. Co., St. Louis &<br>Montreal, P.Q. |
|                                                                                                         | "                              | 571044     | R                    | 9.55                   | 6                  | .029                | .3510         | .3602            |                                                                    |
|                                                                                                         | "                              | 604530     | R                    | 9.5                    | 6                  | .030                | .3509         | .3599            |                                                                    |
|                                                                                                         | Browning                       | 39107      | R                    | 9.4                    | 6                  | .036                | .3520         | .3605            | Has Yugoslav markings.                                             |
|                                                                                                         | Mod. 1922                      |            |                      |                        |                    |                     |               |                  | Was used in<br>Mikhailovich's Army.                                |
|                                                                                                         | "                              | 231260     | R                    | 9.95                   | 6                  | .036                | .3516         | .3596            | Has Yugoslav markings.                                             |
|                                                                                                         | Browning HP                    | 51273      | R                    | 9.9                    | 6                  | .084                | .3493         | .3597            | No German marks.                                                   |
| Fémáru Fegyver<br>és Gépgyár, R.T.,<br>Budapest, Hungary<br>(Usually referred to as<br>Fegyvergyar)     | "                              | 54428      | R                    | 9.9                    | 6                  | .081                | .3490         | .3590            | Has German acceptance<br>marks.                                    |
|                                                                                                         | "                              | (1059)     | R                    | 9.8                    | 6                  | .076                | .3482         | .3592            | Has Congolese markings.                                            |
|                                                                                                         | "                              | T265484    | R                    | 9.9                    | 6                  | .077                | .3476         | .3574            | No. 1059 probably a<br>contract number.                            |
|                                                                                                         | "                              |            |                      |                        |                    |                     |               |                  | Dist. in U.S. and Canada<br>by Browning Arms Co.                   |
|                                                                                                         | Fegyvergyar 29M                | 27682      | R                    | 9.85                   | 4                  | .118                | .3442         | .3586            |                                                                    |
|                                                                                                         | Tokagyp                        | E-12434    | R                    | 9.35                   | 6                  | .070                | .3495         | .3568            | Hungarian improved<br>Tokarev in 9 mm Par.                         |
|                                                                                                         | "                              | E-08814    | R                    | 10.0                   | 6                  | .071                | .3504         | .3569            | Made for Egyptian<br>Army.                                         |
|                                                                                                         | Walam                          | E-02127    | R                    | 9.65                   | 6                  | .071                | .3500         | .3578            | "                                                                  |
|                                                                                                         | "                              | E-02549    | R                    | 9.2                    | 6                  | .070                | .3501         | .3577            | Hungarian version<br>of Walther Mod. PP.                           |
|                                                                                                         | Mod. 37M                       | 128727     | R                    | 9.8                    | 4                  | .112                | .3443         | .3576            | "                                                                  |
| Mre. Francaise d'Armes<br>et Cycles,<br>St. Etienne, France                                             | Frommer STOP                   | 101338     | R                    | 9.6                    | 4                  | .126                | .3447         | .3575            |                                                                    |
|                                                                                                         | "Le Francais"                  | 7727       | R                    | 15.2                   | 6                  | .045                | .3539         | .3616            | Was never accepted<br>by French Army.                              |
|                                                                                                         | Army Type                      |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
|                                                                                                         |                                |            |                      |                        |                    |                     |               |                  |                                                                    |
| Gabilondo y Cia.,<br>Elgoibar, Spain<br>(Now in Vitoria<br>under the name<br>Llama-Gabilondo<br>y Cia.) | Llama--Mod. III                | 61565      | R                    | 11.9                   | 6                  | .0059               | .3478         | .3558            |                                                                    |
|                                                                                                         | "                              | 62508      | R                    | 11.8                   | 6                  | .065                | .3474         | .3565            |                                                                    |
|                                                                                                         | Llama Mod. VIII                | 140291     | R                    | 12.0                   | 6                  | .061                | .3477         | .3573            |                                                                    |
|                                                                                                         | "                              | 145346     | R                    | 12.1                   | 6                  | .055                | .3482         | .3541            |                                                                    |
|                                                                                                         | "                              | 241357     | R                    | 12.3                   | 6                  | .053                | .3480         | .3522            |                                                                    |
|                                                                                                         | Llama Mod. XIII                | 416955     | R                    | 11.8                   | 6                  | .064                | .3485         | .3545            | Unused gun. Raised<br>"ventilated" rib.                            |
| Soc. Siderurgica<br>Glisenti,<br>Turin, Italy                                                           | Glisenti Mod. 1910             | C-1003     | R                    | 10.0                   | 6                  | .086                | .3500         | .3596            |                                                                    |
|                                                                                                         | "                              | H-380      | R                    | 9.9                    | 6                  | .087                | .3493         | .3587            |                                                                    |
| Heckler & Koch,<br>G.m.b.H.,<br>Oberndorf a N, Germany                                                  | Mod. HK4                       | 10572      | R                    | 10.0                   | 6                  | .033                | .3477         | .3577            | Barrel No. 100562.<br>One of four barrels.                         |