

**ORDNANCE MAINTENANCE — U.S. RIFLES, CAL. .30
M1903, M1903A1, M1903A3 AND M1903A4**

**Section I
INTRODUCTION**

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1. SCOPE.

a. This Technical Manual is published for the information and guidance of ordnance maintenance personnel. It contains detailed instructions for disassembly, assembly, inspection, maintenance, and repair of the materiel listed below. Additional descriptive matter and illustrations are included to aid in providing a complete working knowledge of the materiel. These instructions are supplementary to those in Field Manuals and Technical Manuals prepared for the using arms.

Rifle, U. S., cal. .30, M1903

Rifle, U. S., cal. .30, M1903A1

Rifle, U. S., cal. .30, M1903A3

Rifle, U. S., cal. .30, M1903A4 (Snipers)

Sight, telescopic, M73B1 (Weaver No. 330 C)

Bayonet, M1905

Bayonet, M1

Scabbard, bayonet, M3

Scabbard, bayonet, M1910

Scabbard, bayonet, M7

Sling, gun, M1907

Sling, gun, M1

Cover, front sight

b. This manual differs from TM 9-1270, Ordnance Maintenance: Rifles, U. S., cal. .30, M1903 and M1903A1, dated 19 May 1942 as follows:

(1) Information added on U. S. Rifles M1903A3 and M1903A4 (Snipers), Bayonet M1, Bayonet Scabbard M7, and Gun Sling M1.

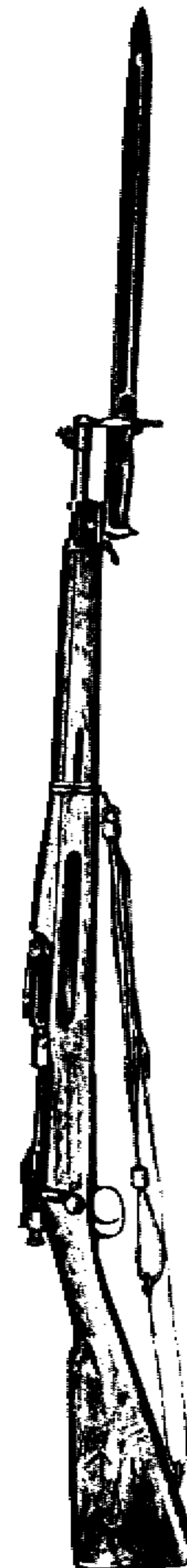
(2) Information added on telescopic sight used with the Rifle M1903A4 (Snipers). This information is supplementary to that contained in TM 9-270.

(3) Changes in information contained in sections on maintenance and repair and special maintenance.

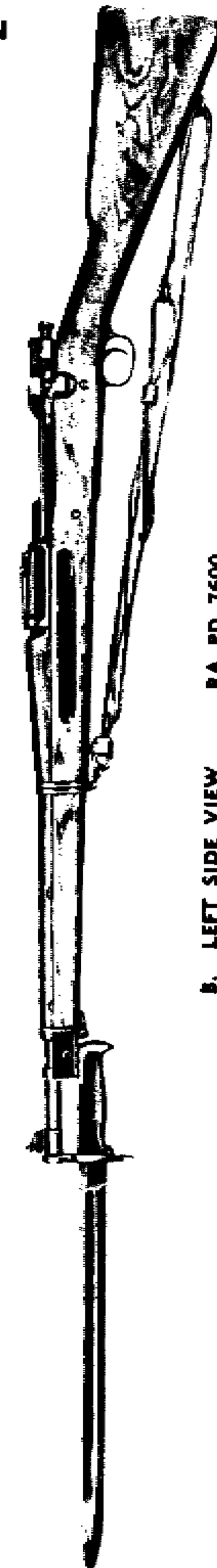
2. GENERAL.

a. The basic rifle of the group covered in this manual is the U. S.

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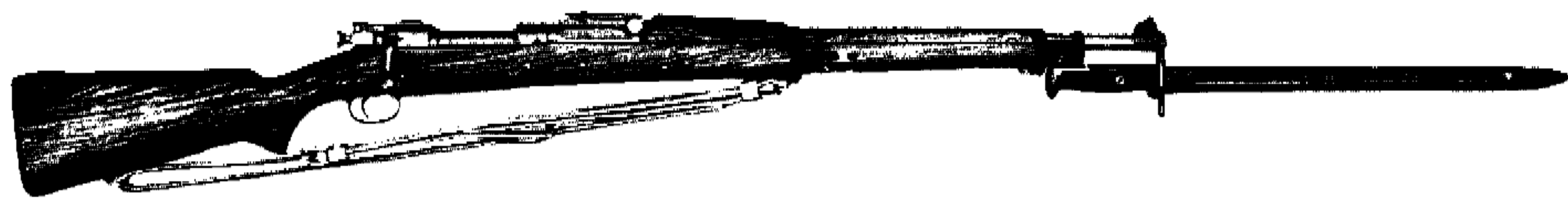


A. RIGHT SIDE VIEW RA PD 7599



B. LEFT SIDE VIEW RA PD 7600

Figure 1 — U.S. Rifle, cal. .30, M1903 With Bayonet M1905 and Sling M1907



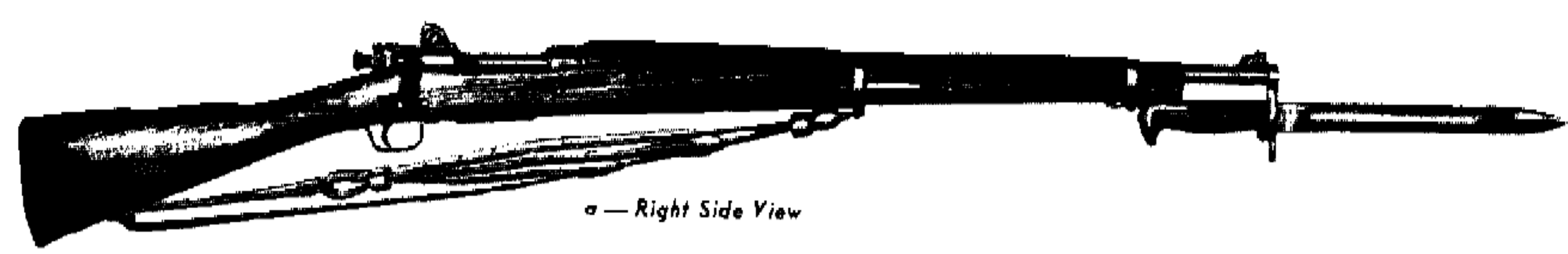
A. RIGHT SIDE VIEW RA PD 7601

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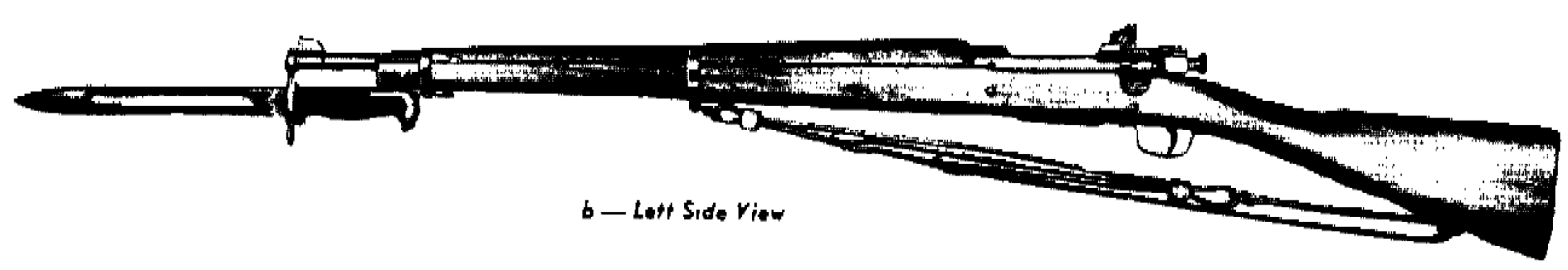


B. LEFT SIDE VIEW RA PD 7602

Figure 2 — U.S. Rifle, cal. .30, M1903A1 With Bayonet M1905 and Sling M1907



a — Right Side View

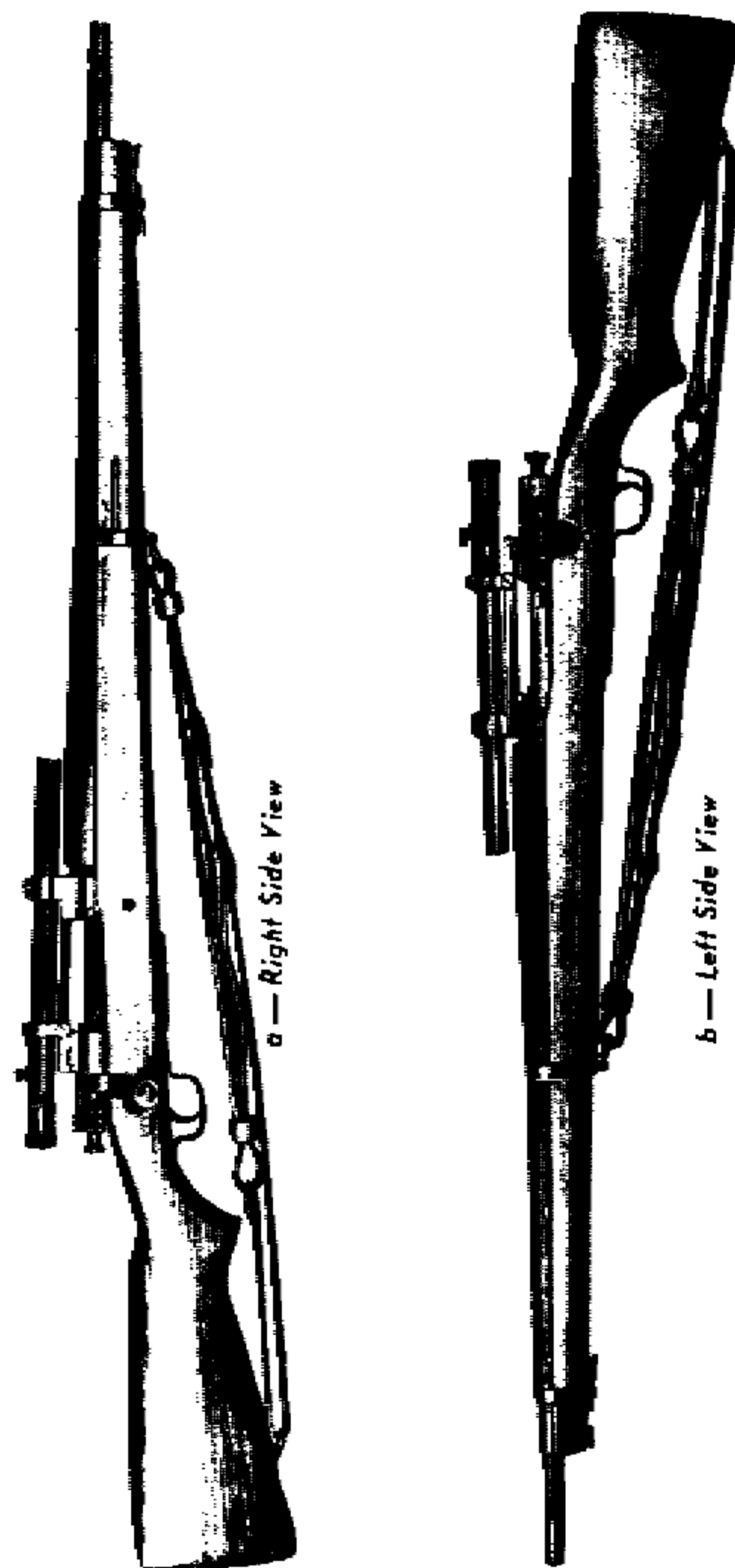


b — Left Side View

RA PD 79912

Figure 3 — U.S. Rifle, cal. .30, M1903A3 With Bayonet M1 and Sling M1907

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M1903, M1903A1, M1903A3 AND M1903A4**



RA PD 79913

**Figure 4 — U.S. Rifle, cal. .30, M1903A4 (Snipers) With Telescopic Sight M73B1
(Weaver No. 330 C) and Sling M1907**

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Rifle, cal. .30, M1903 (fig. 1). This rifle, generally known as the Springfield rifle, has been in service for many years. Subsequently a pistol grip type stock replaced the straight grip type stock and, with the rifle so modified, the designation was changed to U. S. Rifle, cal. .30, M1903A1 (fig. 2). Later, the Rifle M1903 was modified in manufacturing details, the rear sight and fixed base removed and an adjustable rear sight of different design mounted on the bridge of the receiver, a barrel guard longer than and substituted for the hand guard, and a stacking swivel band added. This modified rifle was designated as U. S. Rifle, cal. .30, M1903A3 (fig. 3). Still later, the Rifle M1903A3 was modified by removing front and rear sight groups, assembling an M1903A1 type stock, mounting a telescopic sight on the top of the receiver, and designated as U. S. Rifle, cal. .30, M1903A4 (Snipers) (fig. 4). Detailed characteristics of the various models are explained in paragraph 3. An enlarged view of the mid-sections of the M1903A1, M1903A3, and M1903A4 Rifles is shown in figure 5 for the purpose of easy identification.

NOTE: Recently manufactured stocks do not have the grooves cut in the sides for gripping, as shown in figure 1.

b. As the Rifle M1903 is the basic rifle and the Rifle M1903A1 identical with the exception of the stock, these two may be considered as one rifle in this manual. As all of the four rifles covered herein are basically the same in mechanism, operation, and functioning, the disassembly and assembly, inspection, maintenance, and repair are covered to apply generally. Exceptions with regard to the models are noted where they apply. General illustrations are of the Rifle M1903A1, but apply to the other models unless specified otherwise in the text. Likewise, illustrations of the Rifle M1903A3 apply to the M1903A4 unless specified otherwise.

c. A list of parts for all four rifles covered herein is contained in SNL B-3, with parts common to any one model only, so indicated.

3. CHARACTERISTICS.

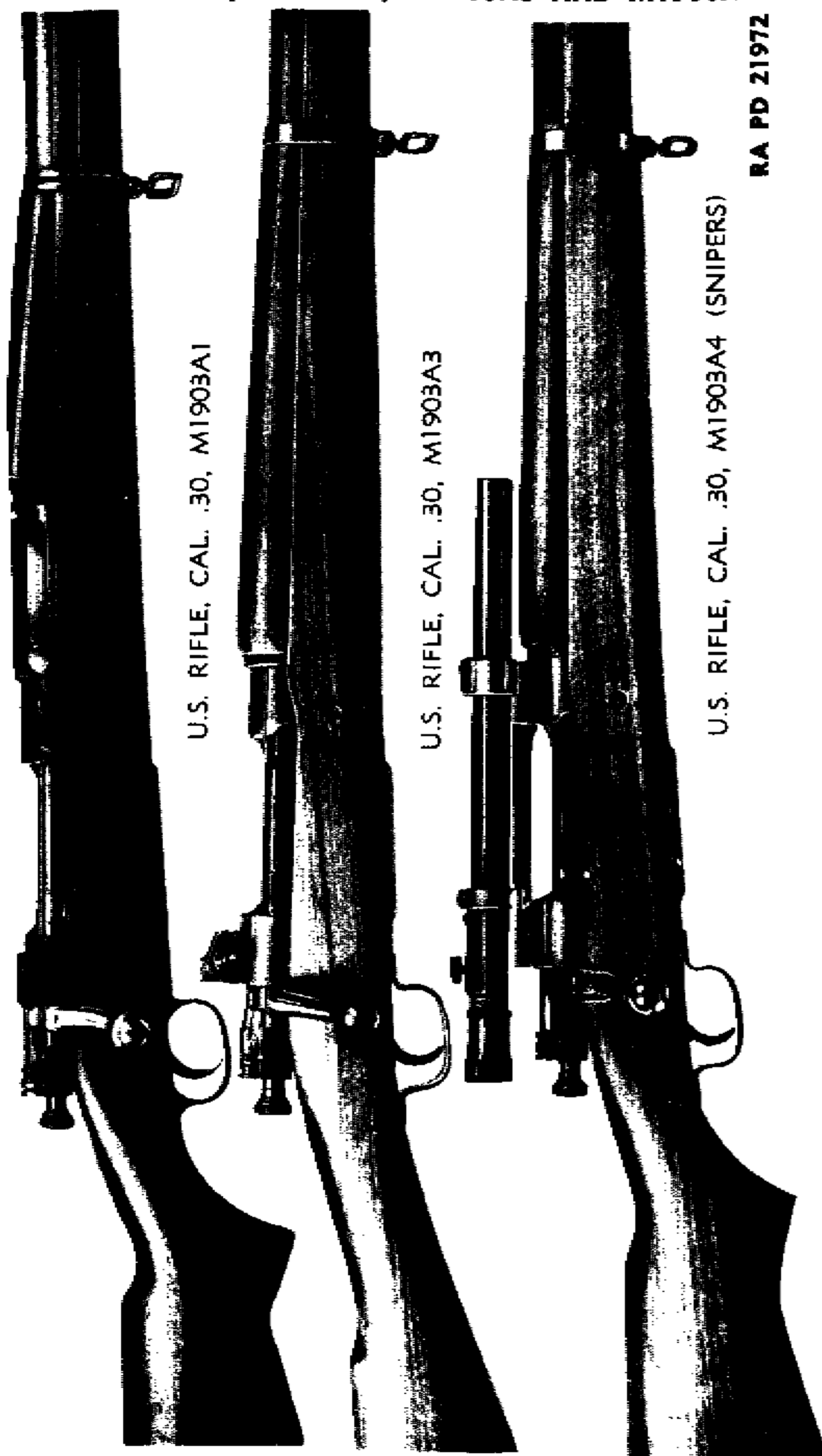
a. U. S. Rifle, Cal. .30, M1903.

(1) **LOADING.** This rifle is a breech-loading magazine weapon of the bolt type. The magazine will hold five cartridges, and one additional cartridge may be inserted in the chamber, thus making the maximum capacity for any one loading six shots. To facilitate the loading of the magazine, cartridges are ordinarily put up in brass clips holding five cartridges each. The magazine, however, may be loaded by inserting single cartridges by hand, one after the other.

(2) **REAR SIGHT** (fig. 6).

(a) The rear sight is adjustable for windage, and the drift of the bullet to the right is offset automatically by the construction of the rear sight leaf. The leaf is graduated from 100 to 2,850 yards. The lines extending completely across the branches of the leaf are alternate

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U.S. RIFLE, CAL. .30, M1903A1

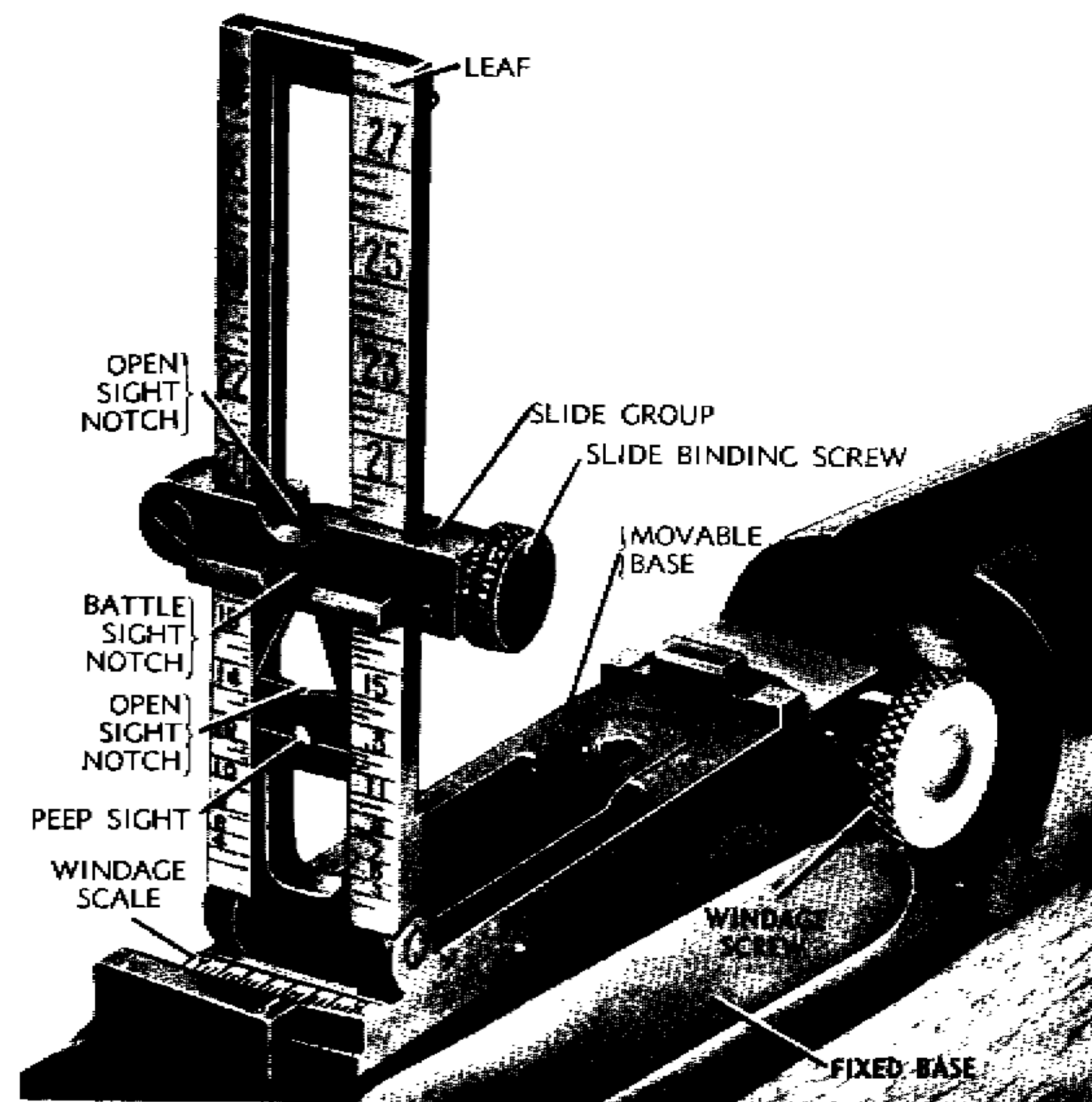
U.S. RIFLE, CAL. .30, M1903A3

U.S. RIFLE, CAL. .30, M1903A4 (SNIPERS)

RA PD 21972

Figure 5—U.S. Rifles, cal. .30, M1903A1, M1903A3, and M1903A4 (Snipers) —Midsection —Right Side View
— Showing Characteristics for Identification

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RA PD 84295

Figure 6 — Rear Sight Group Showing a Setting for Range and Windage — U.S. Rifles, cal. .30, M1903 and M1903A1

100-yard divisions, the longer of the short lines 50-yard, and the shorter lines 25-yard divisions. The drift slide, which may be moved up or down on the leaf, has two notches called open sights and a circular hole called the peep sight. With the leaf raised to the vertical position, the lines on either side of the peep sight and on either side of the lower open sight notch enable the user to set the drift slide accurately at any desired graduation on the leaf. With the leaf and slide in the down position, and using the battle sight notch which is cut in the slide cap, the sights are set for 547 yards.

(b) The rear end of the rear sight movable base is marked with wind gage graduations. Each graduation corresponds to a lateral deviation in the point of impact of the bullet of 4 inches for each 100 yards of range to the target.

(3) RATE OF FIRE AND EFFECTIVE RANGE. The maximum rate