Fig. 1

Fig. 2

Fig. 3

Witnesses:

[Signatures]

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TAKE-DOWN GUN.
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UNITED STATES PATENT OFFICE.

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TAKE-DOWN GUN.


To all whom it may concern:

Be it known that I, THOMAS C. JOHNSON, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Take-Down Guns; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a broken view in right hand side elevation of a gun constructed in accordance with my invention. Fig. 2 a broken reverse plan view thereof. Fig. 3 a broken view thereof in vertical section. Fig. 4 a detached broken view in side elevation of the receiver. Fig. 5 a view thereof in front elevation. Fig. 6 a broken view in side elevation showing the rear end of the barrel, the receiver-extension carried thereby, and the forestock. Fig. 7 a detached view in rear elevation of the receiver-extension. Fig. 8 a sectional view on the line a—b of Fig. 7.

My invention relates to an improvement in take-down guns of that class in which the extreme rear end of the barrel is formed with a sectional thread which takes into a corresponding thread in a socket formed in the front face of the receiver for the reception of the barrel, the object being to simplify guns of this class and make them more convenient to manipulate and to adjust for taking up wear.

In carrying out my invention as herein shown, I locate upon the rear end of the barrel 2 a part 3 which, in the absence of a better name, I shall call the receiver-extension, for the reason that it conforms in shape to the cross-sectional form of the front end of the receiver 4 and virtually constitutes an extension thereof. The large rear face 5 of the said receiver-extension 3 bears directly upon the correspondingly shaped large front face 6 of the receiver 4, whereby strain and shock are very largely removed from the sectional threads 7 formed upon the rear end of the barrel 2 which enters a socket 9 formed in the front face of the receiver and furnished with corresponding sectional threads 10. To assure the stopping of the rotation of the barrel 2 and receiver-extension 3 with respect to the receiver 4 when the said faces 5 and 6 are in perfect registration, I provide the receiver-extension 3 with a raised stop-shoulder 11 located upon the left hand side of its vertical axis (Fig. 7) and arranged to enter a corresponding recess or cut 12 (Fig. 5) in the face 6 of the receiver on the left hand of the vertical axis thereof. When the straight surface 13 of the shoulder 11 and the straight surface 14 of the said recess 12 are brought to a bearing, the receiver and receiver-extension will be in perfect registration. When the receiver and receiver extension are thus registered, a locking-notch 15 in the lower portion of the face 6 of the receiver will be brought into registration with a sliding take-down lock 16 located in an undercut slot 17 formed in the lower face of the receiver-extension and extending across the same from rear to front. At its rear end this lock is formed with a lug 18 adapted to enter the notch 15 whereby the barrel and receiver-extension are locked against rotation with respect to the receiver. For its convenient operation, the lower face of the lock is knurled, while to hold it in its locked and unlocked positions, its upper face is formed with two shallow notches 19 and 20 receiving a small spring-actuated plunger 21 located in a recess 22 in the receiver-extension. Under this construction I am able to dispense with any projections on the front or bearing face of the receiver, whereby the entire surface thereof may be filed or scraped to a true bearing surface. It is true that the rear or bearing face of the receiver-extension 3 is provided with an integral rearwardly projecting stop-shoulder 11, but even if the said face were not furnished with the said shoulder, it could not be filed and scraped to a perfectly true bearing surface on account of the rearwardly projecting butt end of the gun-barrel.

For the purpose of taking up any wear upon the bearing faces 5 and 6, I locate a take-up screw 23 in the face 5 of the receiver-extension at a point directly below the center of the barrel, this screw being constructed with a very large head the face of which is normally flush with the said face of the extension and the edge of which is knurled or otherwise roughened to adapt it to be gripped and held by dog 24 located in the said face 5 and engaged by the beveled lower edge of
the head of a locking screw 25 also entering the said face which is formed with a recess 26 for the reception of the said take-up screw 23, the dog 24 and the locking screw 25. By unscrewing the screw 25, the dog 24 may be moved radially outward enough to let go its hold upon the take-up screw 23 which may then be turned enough to cause its face to be lifted just enough above the face 5 of the receiver-extension 3 to take up any wear that is may have occurred. The locking screw 25 then turned home with the effect of crowding the dog 24 inward into its gripping engagement with the knurled edge of the screw 23. It will be noted that the take-up screw 23 with its large head concentrates the entire take-up provision and function in one piece and overcomes the difficulty of operating several take-up instrumentalities to the same extent to bring them to the same level. Thus three screws located in the receiver or in the receiver-extension cannot be operated by hand and brought to the same level as the head cannot gage the turning of the screws exactly alike. This would not be serious in many situations, but the wear between the faces 5 and 6 is so slight that it is taken up in measurements of thousandths of an inch. When the entire wear is taken up by one piece as in the large-headed screw 23, the above objections are completely overcome.

I claim:

1. In a take-down gun, the combination with the receiver thereof, of a barrel, a receiver-extension carried by the barrel and having its rear face adapted to bear directly upon the front face of the receiver, and a stop-shoulder formed integral with and projecting rearward from the left hand side of the said receiver-extension and entering a suitable cut or recess formed in the left hand side of the front face of the receiver, whereby the rotation of the barrel in the receiver is stopped when the receiver-extension is brought into registration with the receiver, and whereby the said front face of the receiver is left flat to be fitted with respect to the rear face of the said extension.

2. In a take-down gun, the combination with the receiver thereof, of a barrel, a receiver-extension carried by the barrel and having its rear face adapted to bear directly upon the front face of the receiver, and a take-up screw having a large head located in the receiver-extension at a point directly below the barrel for taking up any wear that may occur between the said bearing faces.

3. In a take-down gun, the combination with the receiver thereof, of a barrel having sectional threads coacting with corresponding threads in the receiver, a receiver-extension carried by the barrel and having its rear face adapted to bear directly upon the front face of the receiver, a take-up screw located directly below the center of the barrel and having a knurled or roughened edge, and means for locking the screw against rotation.

4. In a take-down gun, the combination with the receiver thereof, of a barrel having threads taking into corresponding threads in the receiver, a receiver-extension carried by the barrel and having its rear face adapted to engage directly with the front face of the receiver, a take-up screw located in the rear face of the receiver-extension at a point below the center of the barrel, a locking dog engaging with the edge of the said take-up screw, and a locking screw for holding the dog in its locking position.

5. In a take-down gun, the combination with the receiver thereof, of a barrel adapted to be detachably connected with the receiver, a receiver-extension carried by the barrel and having its rear face adapted to engage directly with the front face of the receiver, and a sliding lock located in a slot in the lower edge of the receiver-extension and adapted at its rear end to enter a locking notch in the front face of the receiver.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

Witnesses:

THOMAS C. JOHNSON.

DANIEL H. WEAVER,
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