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C. K. HANSEN

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SAFETY DEVICE FOR FIREARMS

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Fig. 1.

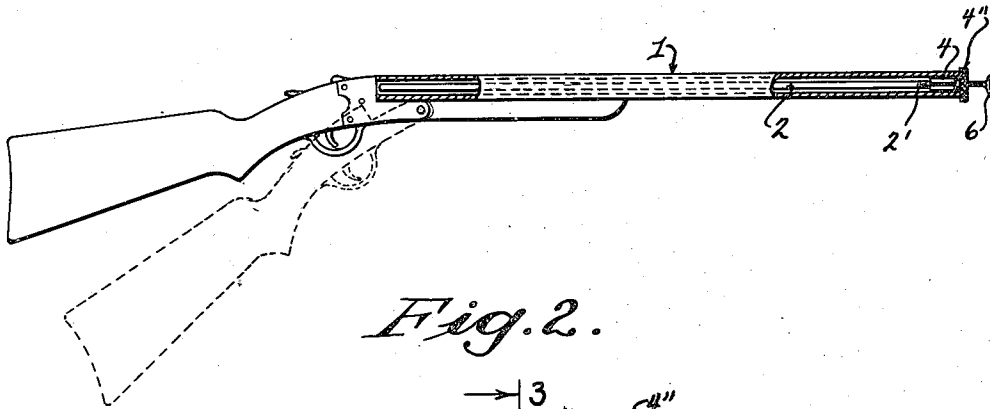


Fig. 2.

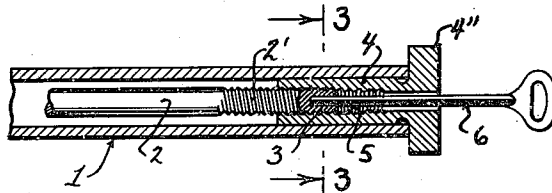


Fig. 3.

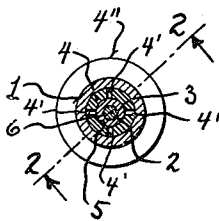
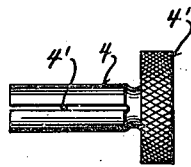


Fig. 4.



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SAFETY DEVICE FOR FIREARMS

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1 Claim. (Cl. 42—1)

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My invention refers to guns of all types and it has for its primary object to provide a safety device to be inserted and locked in a gun barrel, whereby accidental discharge of the gun is eliminated. It is further apparent that if the safety device is inserted in a gun barrel, should the breach end of the same inadvertently contain a shell, it would be detected and expelled.

The specific object of my invention is to provide a rod of a length approximately equal to the length of the gun barrel, the muzzle end of said rod being in tapered threaded connection with a split bushing which is inserted in the gun muzzle, whereby upon relative rotation of the bushing and rod, the said bushing is expanded in the bore of the barrel to lock the equipment into position for safety purposes.

A further object of my invention is to provide a key-socket in the threaded end of the rod, whereby the same may be rotated while the bushing is held against rotation.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the novel construction, combination and arrangement of parts, substantially as hereinafter described, and more particularly defined by the appended claim, it being understood that such changes in the precise embodiment of the herein disclosed invention may be made as come within the scope of the claim.

In the accompanying drawings is illustrated one complete example of the physical embodiment of the present invention constructed according to the best mode so far devised for the practical application of the principles thereof.

In the drawings:

Fig. 1 represents a side elevation of any type of gun, the barrel of which has fitted therein a safety device embodying the features of my invention, the said barrel being partly broken away and in section to more clearly illustrate structural features.

Fig. 2 is a magnified sectional elevation of the muzzle end of a gun equipped with my safety device, the section being indicated by line 2—2 of Fig. 3.

Fig. 3 is a cross section of the same, the section being indicated by line 3—3 of Fig. 2; and

Fig. 4 is a detail side elevation of the muzzle bushing.

Referring by characters to the drawings, 1 indicates a gun barrel having loosely fitted therein a rod 2, the rear end of which extends into the shell seat of the gun barrel. The outer muzzle end of the rod is provided with a screw threaded section 2' and the end of said screw threaded section is formed with a keyed socket 3.

Slidably fitted into the muzzle end of the gun barrel is a bushing 4, provided with longitudinal splits 4', whereby a flexure of the bushing is

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maintained and said bushing terminates with a knurled cap 4'' which abuts the end of the muzzle when said bushing is in place, as shown in Fig. 2 of the drawings.

The bore of the bushing is provided with a tapered thread 5 for interlocking engagement with the threaded end of the rod and, as shown, I provide a key 6, which key is inserted through the bore of the bushing and fitted into the socket 3 of the rod end.

From the foregoing description, it is apparent that the safety equipment may quickly be inserted into the gun barrel and when so inserted, the threaded inner end of the bushing engages the corresponding threaded end of the rod.

The said elements are thus loosely nested within the gun barrel and to lock the same in this nested position, the knurled cap 4' of the sleeve is manually held and the key 6 being inserted in the rod socket, said rod is rotated to cause the end thereof to travel towards the cap end of the sleeve, whereby the tapered thread therein will cause the split sleeve to expand within the muzzle of the barrel, whereby a tight frictional engagement is effected between said surfaces to thus lock the device firmly in its safety position, it being understood that the key 6 is then removed, whereby it would be impossible to extract the safety equipment from the gun barrel and the shell end of said barrel being choked by the rod will prevent insertion of a shell therein.

Thus the accidents caused through, what is known as the loaded gun, are avoided.

I claim:

A safety device for guns comprising a rod approximately equalling the length of a gun barrel and adapted for insertion therein, having a key socket in its muzzle end, a split bushing of approximately the diameter of a gun barrel, the split bushing being in tapered thread connection with the socket end of the rod, and a key adapted to be inserted through the bushing into the rod socket, whereby when said device is inserted in the barrel relative rotation between the rod and bushing is effected to expand said bushing for frictional engagement with the bore of the barrel.

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