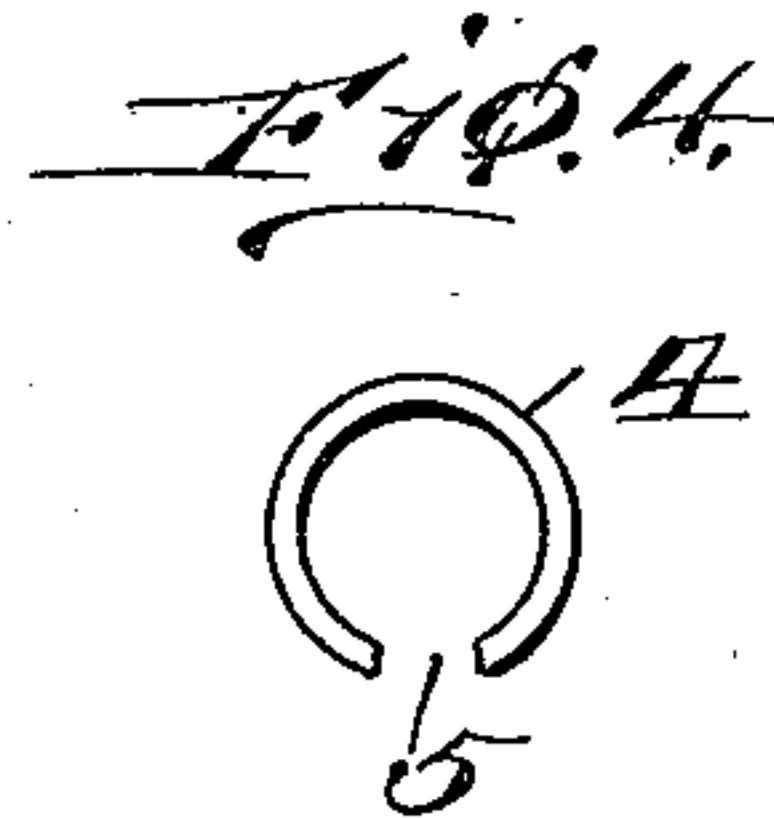
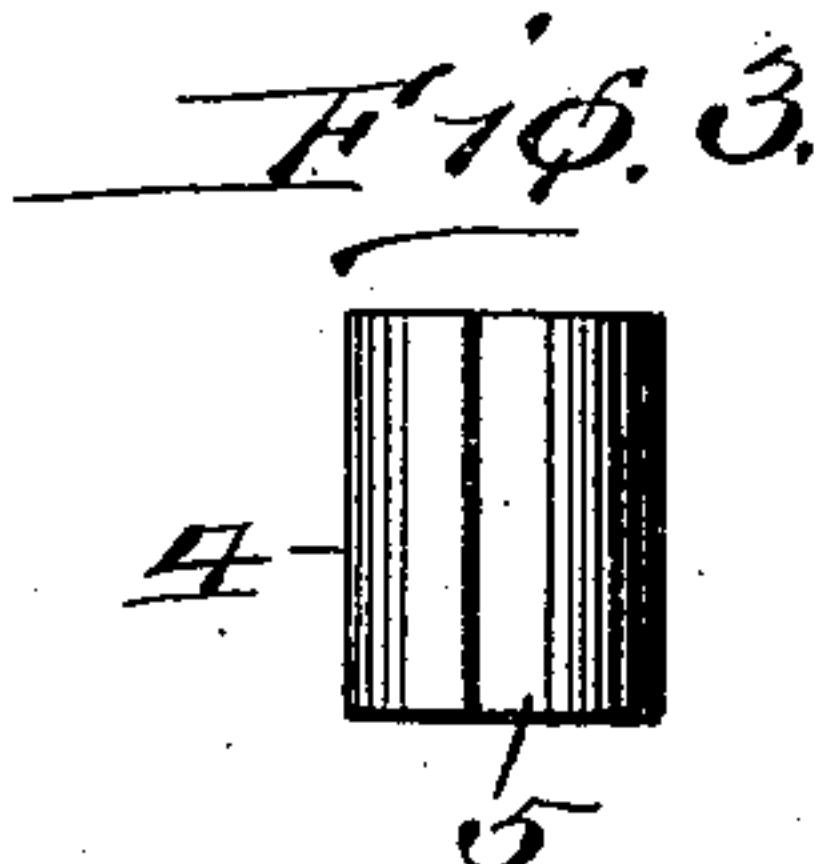
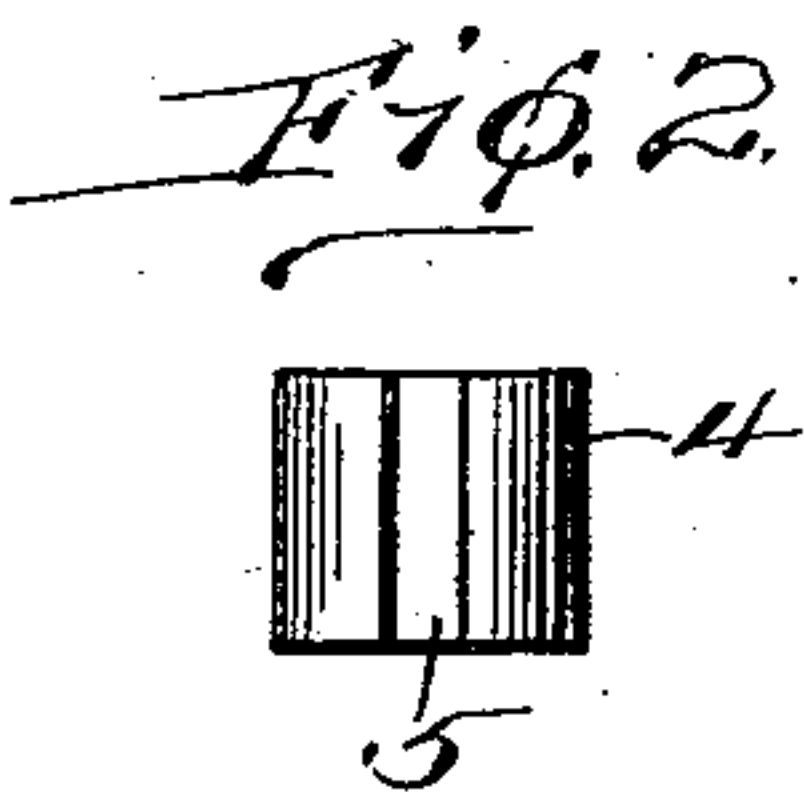
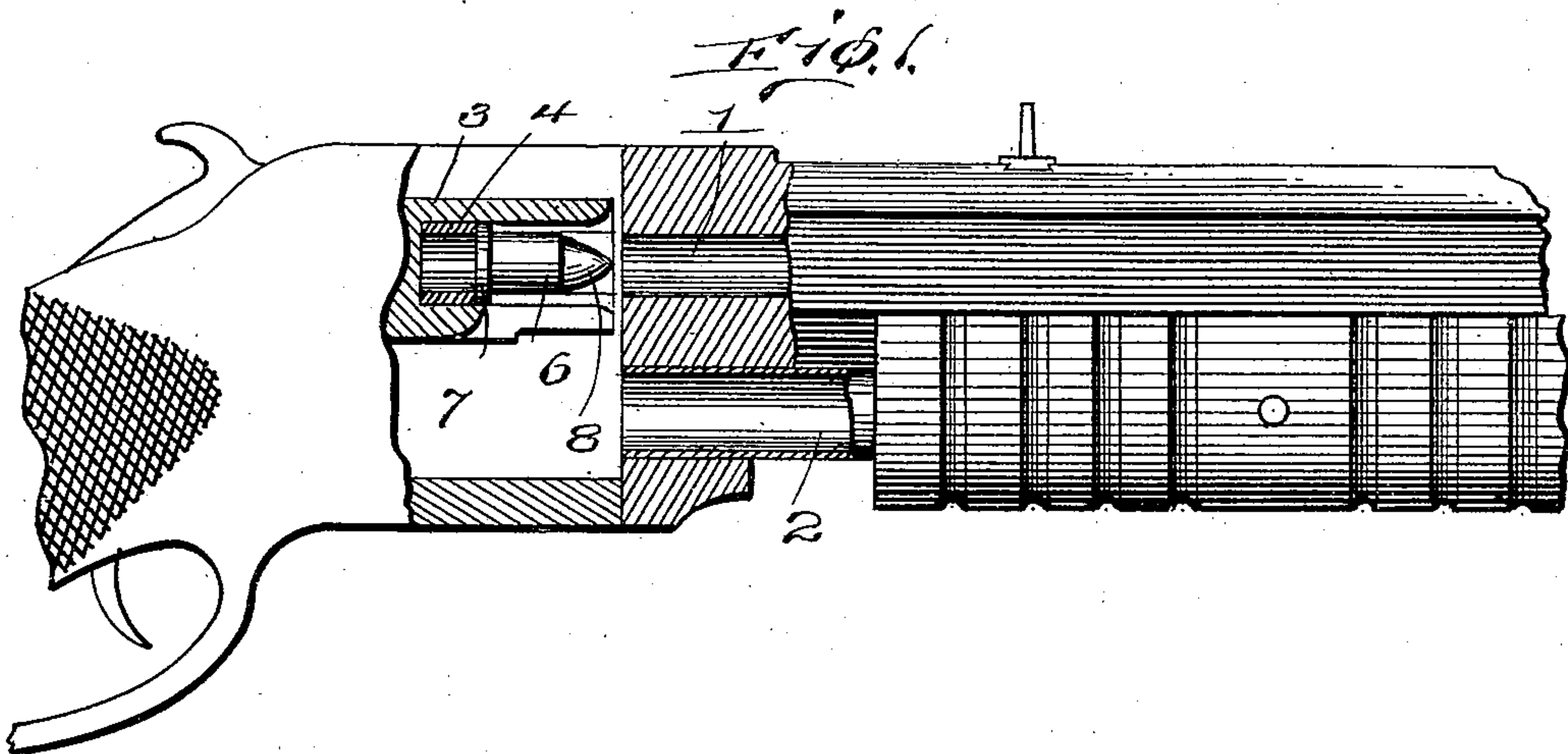


J. E. WORRELL.  
CARTRIDGE ADAPTER.  
APPLICATION FILED MAY 27, 1910.

967,098.

Patented Aug. 9, 1910.



Witnesses

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# UNITED STATES PATENT OFFICE.

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## CARTRIDGE-ADAPTER.

967,098.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed May 27, 1910. Serial No. 563,809.

*To all whom it may concern:*

Be it known that I, JOHN E. WORRELL, a citizen of the United States, residing at Jeffersonville, in the county of Clark and State of Indiana, have invented certain new and useful Improvements in Cartridge-Adapters, of which the following is a specification.

This invention relates to cartridge adapters, and one of the principal objects of the same is to provide simple, reliable and efficient means for rendering an ordinary magazine rifle capable of firing cartridges of different lengths without alteration of the mechanism of the gun.

Another object of the invention is to provide means of simple construction to be placed in the cartridge carrier back of the head of the cartridge to compensate for the length of the longer cartridge for which the gun was intended to use.

Magazine guns as at present constructed are designed to fire a cartridge of a given length and a shorter cartridge cannot be used in the gun without some means for compensating for the length of the longer cartridge when it is desired to shoot a shorter cartridge.

My invention has for its principal object a simple means of compensating for the length of the longer cartridge by placing in the cartridge carrier a simple device which added to the length of the shorter cartridge conforms to the length of the longer cartridge, said device being constructed to permit the ejector to operate without interference with any of the parts.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which,

Figure 1 is a view in partial elevation and partial section of a portion of a magazine gun showing the cartridge carrier in which is placed a short cartridge and my cartridge adapter in position for use. Fig. 2 is a view of one of my cartridge adapters. Fig. 3 is a similar view of a longer cartridge adapter. Fig. 4 is an end view of the same.

Referring to the drawing for a more particular description of my invention the numeral 1 designates the barrel of an ordinary magazine gun and 2 the magazine of the same, while 3 is the cartridge carrier de-

signed to carry the cartridge from the magazine 2 to the barrel 1.

The cartridge carrier 3 of ordinary magazine guns is provided with a bore in its front end adapted to receive a cartridge of a given length and mechanism provided for forcing the cartridge into the carrier 3 from the magazine 2, after which the carrier 3 is moved by suitable mechanism to alinement with the barrel 1. The cartridge is then pushed into the barrel ready for firing by suitable means.

My invention consists of a short section of metal tubing 4, preferably of slightly resilient character and provided with a slot 5 extending from end to end of the adapter. The carrier 3 is provided with a slot through which the ejector operates for conveying the cartridge to the barrel of the gun. This slit in the carrier conforms to the slot 5 in the adapter, hence when the adapter is in place in the carrier the movement of the ejector will not be interfered with by the adapter.

As shown in Fig. 1 of the drawing the cartridge 6 is of a length somewhat shorter than the cartridge for which the carrier 3 is intended. By placing the adapter 4 in the carrier the head 7 of the cartridge 6 abuts against the outer edge of the adapter 4 when forced in the carrier and the slug 8 lies practically flush with the front end of the carrier, thus permitting the cartridge 6 to be used in a gun intended for a much longer cartridge. If a still shorter cartridge or a flobert is to be used the adapter shown in Fig. 3 may be inserted in the carrier. This adapter is of the same general construction as that shown in Figs. 1 and 2, excepting that it is longer.

Owing to the extreme simplicity of my invention a gun intended for shooting a long cartridge may be quickly adapted for use with shorter cartridges and since the cost of production of my adapter is so slight a full set of adapters may be included in a box of assorted cartridges; or the adapters may be sold separately to be used in any form of magazine guns.

I claim:

1. A cartridge adapter designed to be placed in the cartridge carrier of a maga-



zine gun for adapting the gun to different lengths of cartridges, said adapter comprising a tubular section having a longitudinal slot therein.

- 5 2. A cartridge adapter comprising a section of a resilient metal tube having a slot in one side thereof to conform to the slot in the cartridge carrier, said adapter being of a length which when added to the length of

the shorter cartridge conforms to the length 10 of the cartridge which the gun was intended to use.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN E. WORRELL.

Witnesses:

ALICE ELIZABETH WORRELL,  
MAMIE SENOUR CANNON.