Dec. 26, 1922.

1,440,191

E. J. T. WENNERSTRÖM.
PERCUSSION FUSE.
FILED NOV. 27, 1920.

2 SHEETS-SHEET 1

Fig. 1.

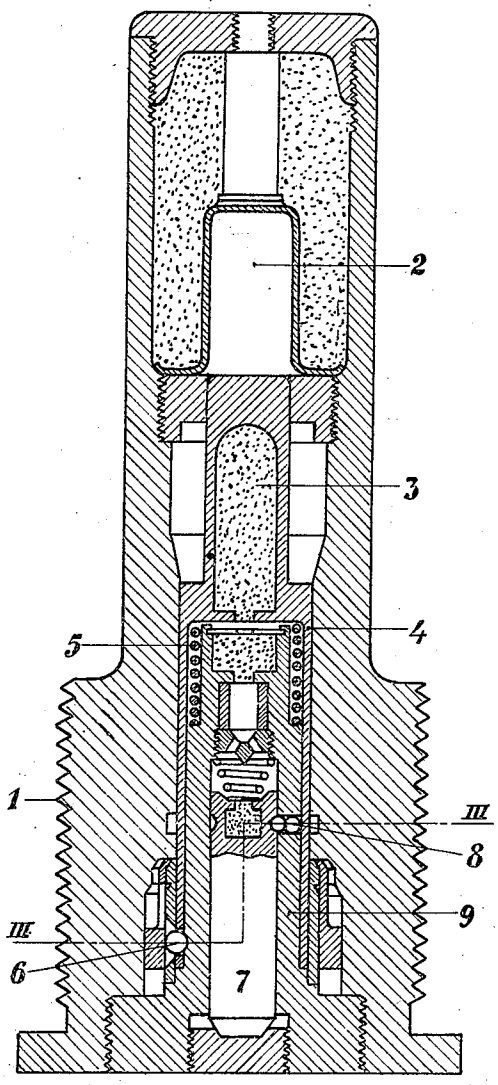
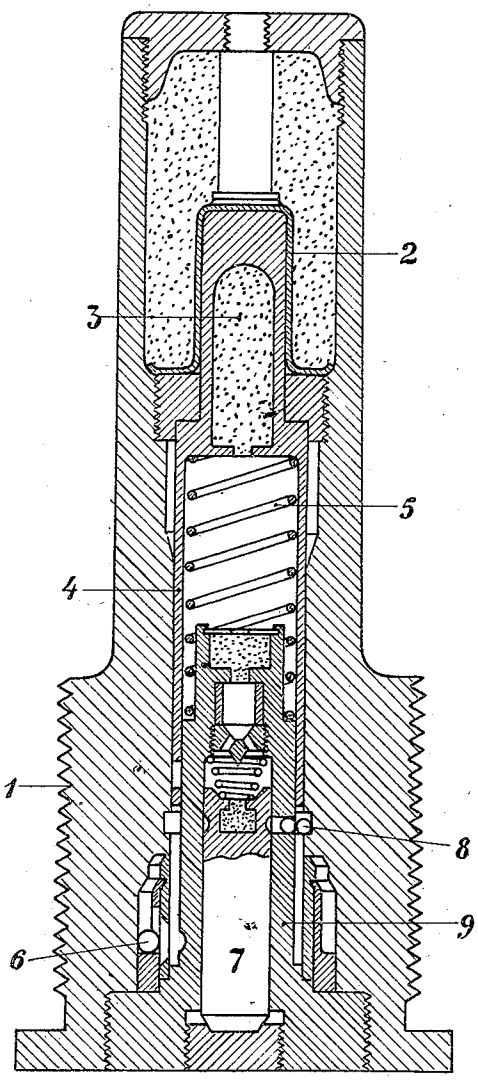


Fig. 2.



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By Wm Wallace White
ATTY.

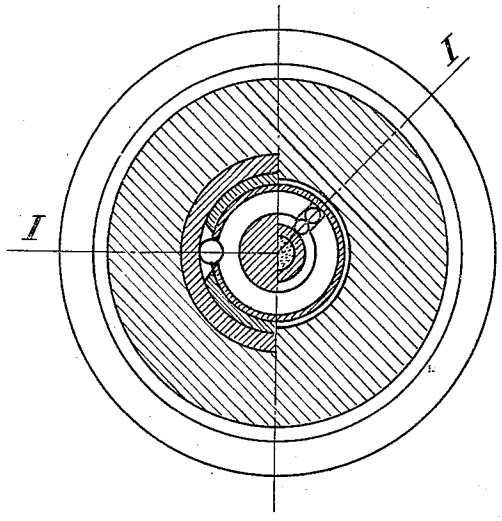
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2 SHEETS-SHEET 2

Fig. 3,



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Patented Dec. 26, 1922. 1,440,191

UNITED STATES PATENT OFFICE.

ERNST JOHAN TORSTEN WENNERSTRÖM, OF BOFORS, SWEDEN, ASSIGNOR TO AKTIEBOLAGET BOFORS, OF BOFORS, SWEDEN.

PERCUSSION FUSE.

Application filed November 27, 1920. Serial No. 426,802.

To all whom it may concern:

Be it known that I, ERNST JOHAN TORSTEN WENNERSTRÖM, a subject of the King of Sweden, residing at Bofors, Sweden, have invented new and useful Improvements in Percussion Fuses, of which the following is a specification.

The present invention has for its object an improvement in such fuses, by which the primer and the detonator shell, prior to the discharge of the gun, are so disposed with relation to each other that explosion cannot take place and by which at, or after the discharge of the gun, the primer or detonator shell is removed by means of a spring in such a manner that the primer will rest within the detonator shell, the invention being characterized by one or more locking devices arranged in such a manner that independently of the spring they will lock the primer or the detonator shell in the new position in which said primer or detonator shell has been brought by the spring at or after the discharge of the gun.

In the accompanying drawing, forming part of this specification,

Figure 1 is a vertical section taken approximately on the line I—I of Fig. 3, the primer being shown in its original position;

Fig. 2 illustrates the fuse with the primer in a locked position within the detonator shell; and

Fig. 3 is a transverse section taken on the line III—III of Fig. 1.

Referring to these drawings, 1 is the tube body, 2 the detonator shell, 3 the primer, 4 the armament shell which is connected with the primer and 5 a propelling spring which forces the primer into the detonator shell after the armament shell 4 has been disengaged from the locking balls 6 in the well known manner.

According to the invention one or more locking devices, which in the preferred embodiment shown in the drawings, consist of balls 8 arranged in cavities in the guidebody 9 for the hammer 7 in such a manner that they lock the hammer to the guide-body, until the armament shell 4 after the discharge of the gun has been pushed beyond the locking devices, when these latter, through centrifugal force, are thrown out of the cavities and release the hammer but lock the armament shell, preventing this from returning to its original position.

Having now particularly described the nature of my invention and the manner of its operation, what I claim is:—

1. In a fuse having a primer and a detonator shell adapted to initially occupy a safety position relatively to each other, a tube enclosing said members, a spring for changing the relative position of said primer and detonator shell so that the primer is located within the detonator shell, the combination of a locking device for firmly locking the primer and detonator shell independent of the spring in the position last mentioned.

2. In a fuse having a primer and a detonator shell adapted to initially occupy a safety position relatively to each other, a tube enclosing said members, a spring for changing the relative position of said primer and detonator shell so that the primer is located within the detonator shell, the combination of a locking device for locking the primer independent of the spring in the second position, said locking device, before the discharge of the gun, being used for locking the hammer.

3. In a fuse having a primer and a detonator shell adapted to initially occupy a safety position relatively to each other, a tube enclosing said members, a spring for changing the relative position of said primer and detonator shell so that the primer is located within the detonator shell, the combination of a locking device for firmly locking the primer and detonator shell independent of the spring in the position last mentioned, said locking device consisting of a plurality of balls.

In testimony whereof I have signed my name to this specification.

ERNST JOHAN TORSTEN WENNERSTRÖM.