

T. MORRIS.
HOLDFAST SPRING CATCH.
APPLICATION FILED OCT. 6, 1908.

938,267.

Patented Oct. 26, 1909.

FIG. 1.

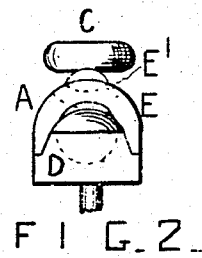
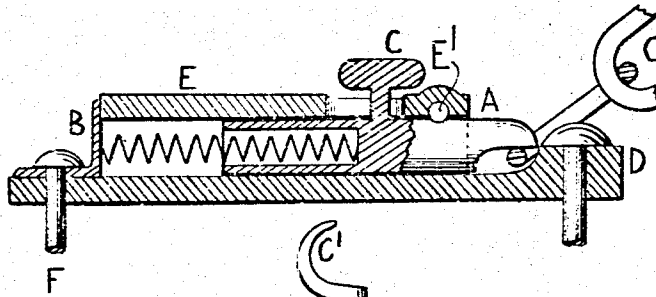


FIG. 3.

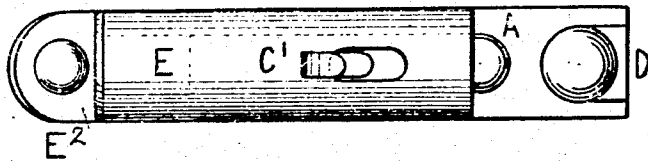
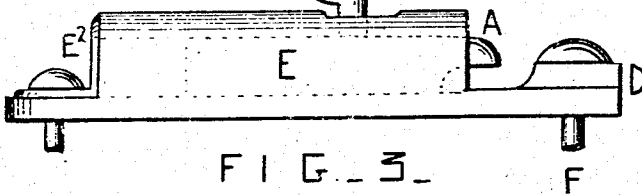


FIG. 4.

Witnesses:

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UNITED STATES PATENT OFFICE.

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HOLDFAST SPRING-CATCH.

938,267.

Specification of Letters Patent.

Patented Oct. 26, 1909.

Application filed October 6, 1908. Serial No. 456,502.

To all whom it may concern:

Be it known that I, THOMAS MORRIS, a subject of His Majesty the King of Great Britain, residing at Mornington, near Dunedin, in the British Dominion of New Zealand, have invented certain new and useful Improvements in Holdfast Spring-Catches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in spring catches and more particularly to a spring catch for holding loops, chain links and the like when used in such connections as harness structures, boat "painters", bag handles and for other obvious purposes where the invention may be employed to advantage.

The structure contemplated in the present invention is of such nature that the bolt instantly releases the part held; e. g., a loop or link, upon proper manipulation thereof while at the same time positively locking the said loop or link normally against displacement.

The invention bears a general resemblance to certain spring bolts designed for other purposes, but differs therefrom in that the loop or link is instantly released whereas in the ordinary device, it is necessary to wholly retract the bolt before the loop or link can be released.

For the purposes specified I make a bolt to slide in a case with a spring normally pressing said bolt against a specially formed block and said bolt and block are formed to retain the loop or link in a cavity formed between them, while release is achieved by withdrawing the said bolt, which however is capable of being secured against unauthorized tampering.

Referring to the accompanying drawing:—
Figure 1 is a longitudinal section of the device and Fig. 2 is an end view of same. Fig. 3 is a side elevation of a slightly modified construction and Fig. 4 is a plan of same.

A is the bolt formed as shown, and normally kept in the position in Fig. 1 by the spring B.

C is a knob and C' is an alternative hook device for withdrawing the bolt A from the block D, which is so formed that the loop

may be snapped into the cavity formed between said bolt and said block and when so positioned is retained as indicated. Advantage may be taken of the bolt-head to cheaply form part of the block D, as shown.

E is the casing formed with a slot for the parts C or C' to work in, and E' is a hole defined by registering transverse grooves in the casing E and in the bolt A to insert a padlock or such device to prevent the bolt A from being unlocked.

E' is a covering plate secured by a bolt F at the end of the casing A.

G is a loop or link as indicated.

The cavity under the point of bolt A would be formed to fit the article to be held and might vary slightly for that purpose.

It will be seen that the inner or working side of block D is inclined to serve also as a cam whereby a link will slide away instantly on the withdrawal of bolt A, without any relaxation of tension being needed.

In this invention any materials or sizes found suitable may be adopted.

What I desire to obtain Letters Patent of the United States of America for, is:—

1. In spring catches of the type set forth, in combination, a bolt casing, a spring pressed bolt mounted for axial sliding movement in said casing and having the under face of its outer end cut away to form a recess, and a stationary block arranged at the end of said casing to close the said recess in the extended position of said bolt, said block having an outwardly inclined working face defining a wall of said recess and permitting of the ready displacement of the part held in said recess upon retractile movement of said bolt.

2. In spring bolts of the type set forth, in combination, a bolt casing, a spring pressed bolt disposed in said casing for axial sliding movement, and a block for cooperation with said bolt to hold a part to be locked, said bolt and said casing having transverse grooves which register in the extended position of the bolt and which serve to receive jointly therethrough a locking part.

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

THOMAS MORRIS.

Witnesses:

HENTON MACAULAY DAVEY,
FREDERICK RANDALL DUNSFORD.