No. 820,383. PATENTED MAY 15, 1906.

J. ASHLAND.

TOGGLE HOOK.

APPLICATION FILED JAN. 19, 1905.

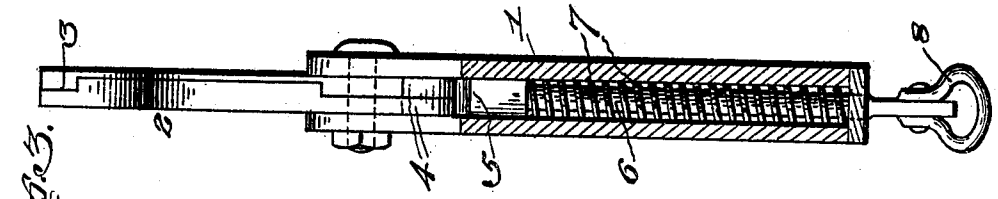


Fig. 3.

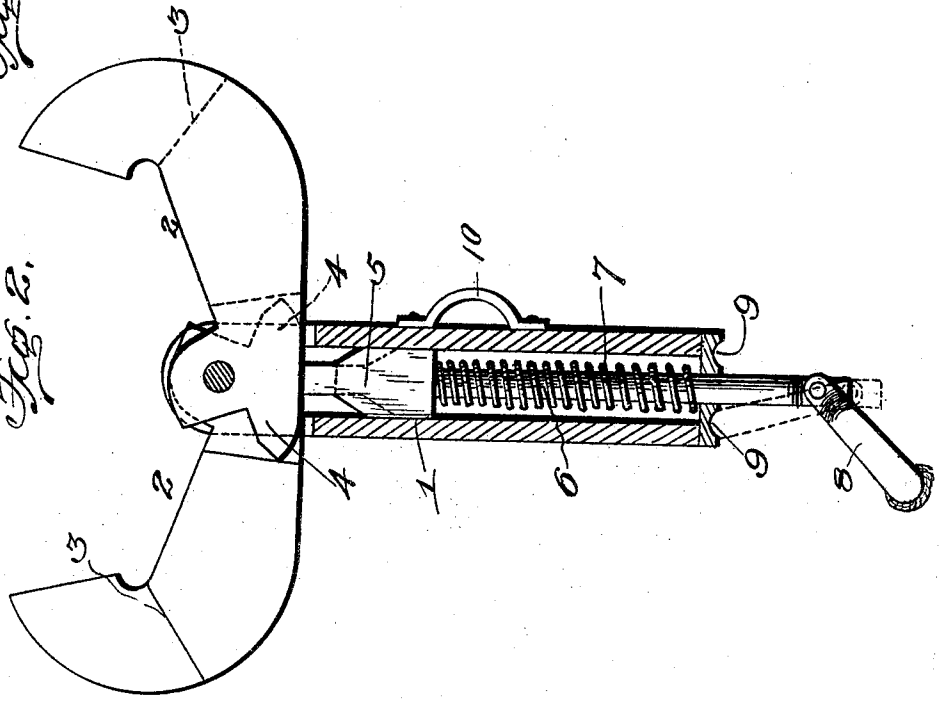


Fig. 2.

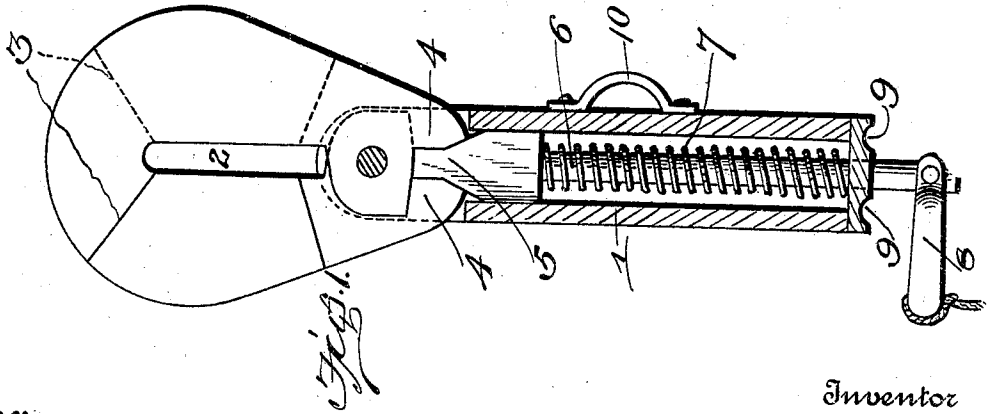


Fig. 1.

Witnesses
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UNITED STATES PATENT OFFICE.

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TOGGLE-HOOK.

No. 820,383. Specification of Letters Patent. Patented May 15, 1906.

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To all whom it may concern.

Be it known that I, JAMES ASHLAND, a citizen of the United States, residing at Escanaba, in the county of Delta and State of Michigan, have invented certain new and useful Improvements in Toggle-Hooks; and I do 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 improvements in safety toggle-hooks.

The object of the invention is to provide a hook of this character which when closed will be securely held against opening until released by the operator.

Another object is to provide a releasing mechanism which may be actuated by the operator at a distance, thereby obviating the necessity of occupying dangerous positions beneath or near the load when fastening or unfastening the hook.

A further object is to provide a hook of the character described which will be simple, strong, and durable in construction and constructed of interchangeable parts which may be quickly and easily replaced when broken.

With these and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a side view showing the hook closed, parts of the casing being broken away to more clearly show the construction. Fig. 2 is a similar view showing the hook open, and Fig. 3 is an edge view of the same.

Referring more particularly to the drawings, 1 denotes the casing or support for the hook, said casing being of any suitable shape, but is preferably rectangular, as shown. In the bifurcated outer end of the casing is pivotally mounted a pair of hooks 2, the outer ends or bills of which are provided with counterpart recesses 3, whereby when the same are brought together in closed position they will overlap and lie substantially in the same plane. The inner pivoted ends of the hooks are also recessed to permit said ends to overlap. Said inner ends are also provided with inwardly-projecting locking members 4, whereby when the hooks are in cooled position a substantially triangular-shaped space is formed between said locking members, into which is adapted to be projected a similarly-shaped head 5 on the end of the locking-bolt 6, which is slidably mounted in the casing 1.

Around the bolt 6, between the head of the same and the opposite end of the casing, is arranged a coil-spring 7, the tension of which is exerted to project the bolt outwardly, so that the head of the same will engage the locking members 4 and hold the hooks in closed position.

On the outer end of the locking-bolt 6 is pivotally mounted a ring or bail 8, to which is adapted to be connected an operating-cord. (Not shown.) In the outer end of the casing is formed grooves or recesses 9, with which the bail 8 may be swung into engagement when the bolt is in a retracted position, thereby holding said bolt out of engagement with the locking members of the hooks and against the tension of the spring 7, thus permitting the hooks to be freely moved into closed or opened position.

My toggle-hook is designed for the purpose of binding logs upon a sleigh or car, and when in use a chain is connected to a loop 10 at the side of the hook and passes thence around the load and is connected by one of its links to the overlapping hook members 2. By the use of a hook constructed as herein shown and described the same may be released to discharge the load carried thereby while the operator remains at a safe distance from the load, thus avoiding the danger of his being caught by the falling of the material constituting the load. This may be accomplished by means of a rope or cord connected to the bail 8 and leading to a distance from the load, where it may be pulled to release the head 5 from between the locking members of the hook. A further advantage for a hook constructed as herein shown and described is that the parts are interchangeable, so that in case any of the same should become broken they may be readily replaced by similar parts without the necessity of providing an entirely new hook.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what

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I claim as new, and desire to secure by Letters Patent, is—

1. The herein-described hook comprising a casing, a pair of hooks pivotally mounted in one end of said casing, locking members 4 projecting from said hooks, a locking-bolt 5 mounted in the casing and provided with a spring surrounding its shank, said bolt adapted to hold the hooks in locked position, and a ring secured to said bolt and adapted to be moved into engagement with the casing to hold said bolt in retracted position, substantially as described.

2. In a hook of the character described, the combination with a casing, of a pair of hooks pivotally mounted in the end of the same, said hooks being recessed or cut away to permit the same to overlap, locking members formed on the pivoted ends of said hooks, a spring-projected locking-bolt adapted to engage said locking members to hold said hooks in closed position, and a ring pivotally connected to the outer end of said bolt whereby an operating-cord may be attached thereto, said ring being adapted to be turned down into engagement with the outer end of said casing to hold said bolt in a projected position, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JAMES ASHLAND.

Witnesses:
A. J. YOUNG,
A. H. RYALL.