No. 844,710. PATENTED FEB. 19, 1907.

E. S. CLOUGH.

RELEASABLE CONNECTION.

APPLICATION FILED AUG. 11, 1906.

Fig. 1

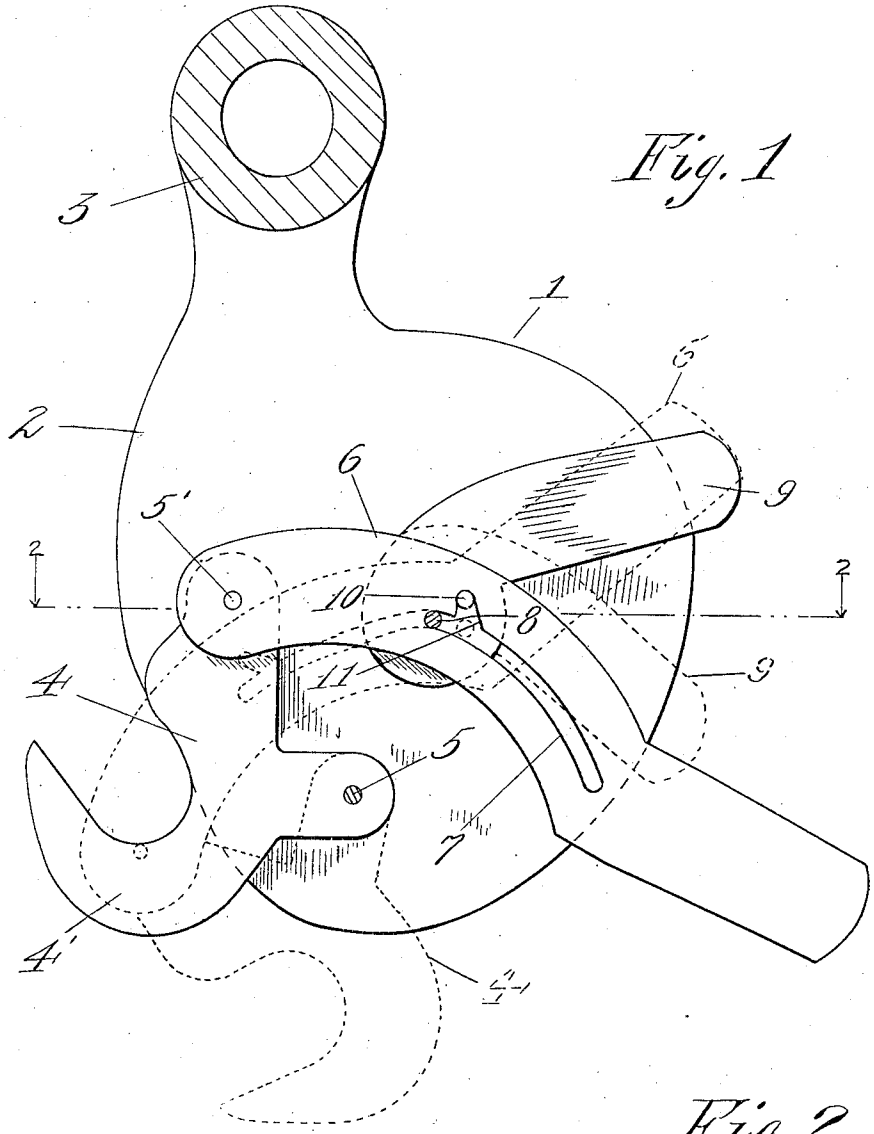
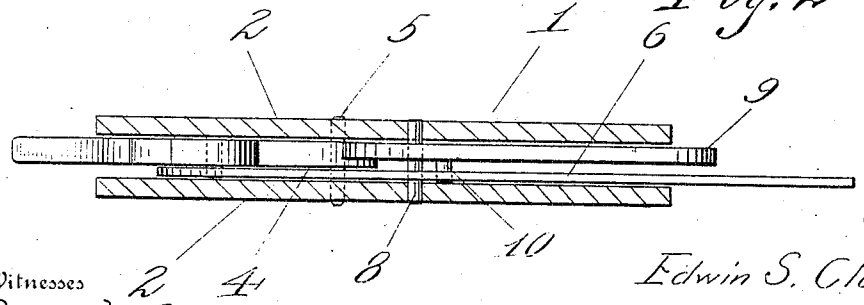


Fig. 2



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UNITED STATES PATENT OFFICE.

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RELEASABLE CONNECTION.

No. 844,710. Specification of Letters Patent. Patented Feb. 19, 1907.

Application filed August 11, 1906. Serial No. 330,261.

To all whom it may concern:

Be it known that I, EDWIN S. CLOUGH, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and the State of Washington, have invented certain new and useful Improvements in Releasable Connections, of which the following is a specification.

The invention has for its object to simplify and improve devices of the above type, and resides in the construction, combination, and arrangement of parts, as set forth in this specification and defined in the appended claims.

With reference to the accompanying drawings, wherein like reference-numerals designate corresponding parts throughout, Figure 1 is a side view of my improved device with one of the side plates of the supporting member removed and shows the mechanism by full and dotted lines in normal and releasing positions, respectively; and Fig. 2 is a transverse section taken on line 2 2 of Fig. 1.

Referring to the drawings, numeral 1 designates a supporting member, which, as shown, comprises opposite side plates 2 and an eye 3, united therewith, in which a rope or the like may be secured in applying the device for lifting or hauling.

Reference-numeral 4 designates an attaching member swingably engaged with a pivot 5, seated on the side plates 2 and having a hook-shaped extension 4′ projecting from the supporting member. Pivotally connected with member 4 above the pin 5, as at 5′, is a latch 6, having a longitudinally-extending arch-shaped slot 7 of suitable length, which receives freely a stop 8, secured to the side plates 2 rearwardly of said member.

Related to the latch 6 is a rearwardly-projecting trigger 9, which is conveniently pivotally supported on the stop 8 and carries an eccentrically-disposed detent 10, normally engaging a shoulder, as 11, on said latch, the said shoulder being inclined in the direction of the releasing movement of the detent and conveniently consisting of the rear side wall of a lateral extension of slot 7.

When desired to free the attaching member 4 for movement to a position for releasing its load, the trigger 9 is pressed downwardly at its outer end to move the detent 10 from engagement with the shoulder 11, when the latch 6 will be free to move with said member as it swings downwardly until the rear end wall of slot 7 strikes said detent.

To reset the device, the latch 6 is pressed downwardly to swing member 4 upwardly until the forward end wall of slot 7 strikes the stop 8, when the lateral extension of said slot will be in position to receive the detent 10, which is then moved into engagement with shoulder 11 by pressing upwardly on the outer end of trigger 9.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States of America, is—

1. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch connected with said member and having a longitudinally-extending slot, a detent normally engaged with said latch to lock the same and fitting in said slot, and a trigger mounted on said support and connected with said detent.

2. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch connected with said member and having a longitudinally-extending slot, a stop secured to said support and engaged in said slot, and a trigger mounted on said support and normally engaged with said latch to lock the same.

3. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch pivotally connected with said member and having a longitudinally-extending slot, a stop secured to said support rearwardly of said member and engaging in said slot, and a trigger mounted on said support and normally engaged with said latch to lock the same.

4. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch pivotally connected with said member provided with a longitudinally-extending slot having a lateral extension, and a trigger mounted on said support rearwardly of said member and having a detent fitting in said opening and normally engaging in said extension.

5. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch pivotally connected with said member provided with a longitudinally-extending slot having a lateral extension formed with one of its walls inclined, and a trigger mounted on said support and

having a detent fitting in said slot and normally engaging said wall of the extension.

6. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch pivotally connected with said member above the point of swing thereof and provided with a longitudinally-extending arch-shaped slot having a lateral extension, a stop secured to the support rearwardly of said member and engaged in said slot, and a trigger pivotally supported on said stop and having an eccentrically-disposed detent fitting in said slot and normally engaging in said extension.

7. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch movably connected with said member, a trigger pivotally mounted on said support and having an eccentrically-disposed detent normally engaged with said latch, and means engaging said latch to normally secure it from moving into disengaging position relatively to said detent.

8. A releasable connection comprising a support, an attaching member swingably mounted thereon, a latch pivotally connected with said member above the point of swing thereof, a trigger pivotally mounted on said support rearwardly of said member and having an eccentrically-disposed detent normally engaged with said latch, and means whereby said latch is normally secured from moving into disengaging position relatively to said detent.

Signed at Seattle, Washington, this 14th day of July, 1906.

EDWIN S. CLOUGH.

Witnesses:
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