No. 840,128. PATENTED JAN. 1, 1907.

E. J. J. GREGERSON.

INTERLOCKING CLEVIS.

APPLICATION FILED OCT. 3, 1906.

Fig. 1.

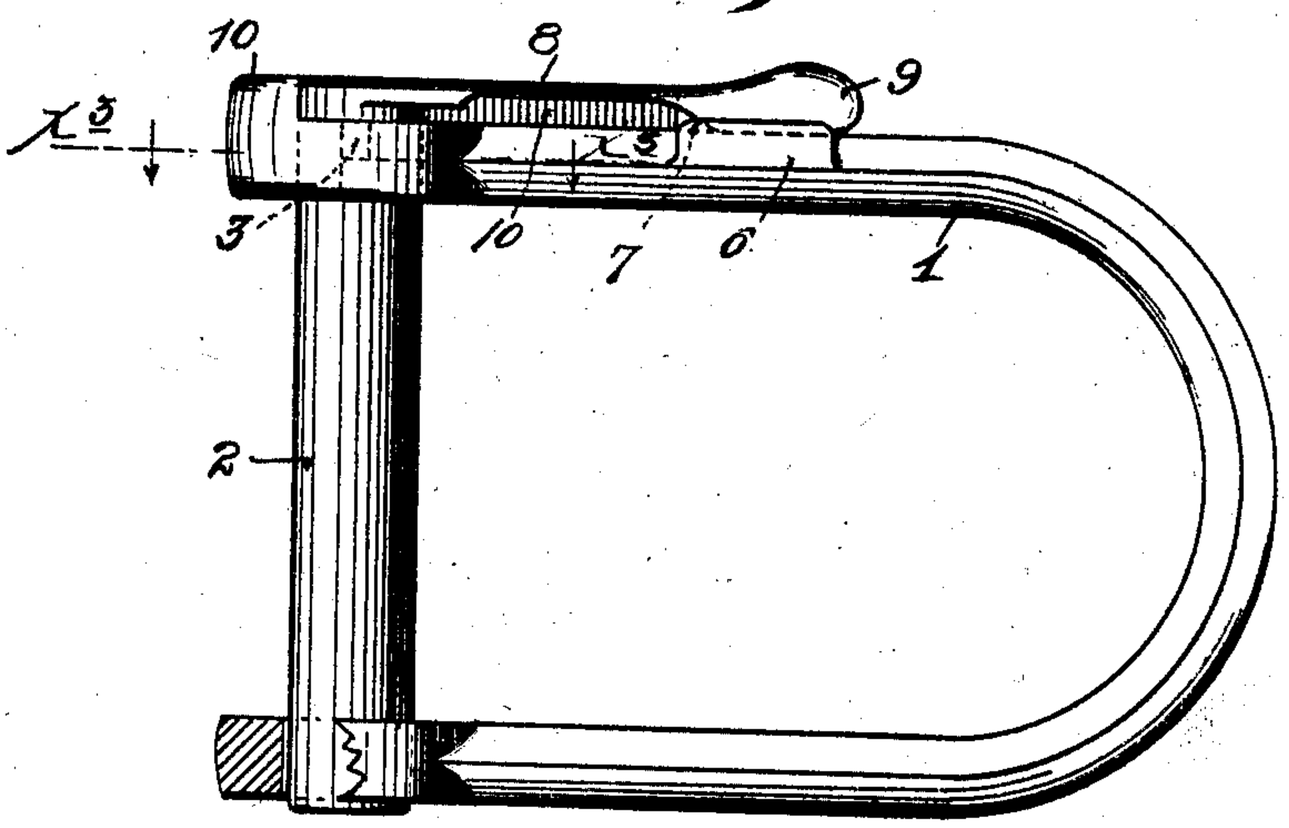


Fig. 2.

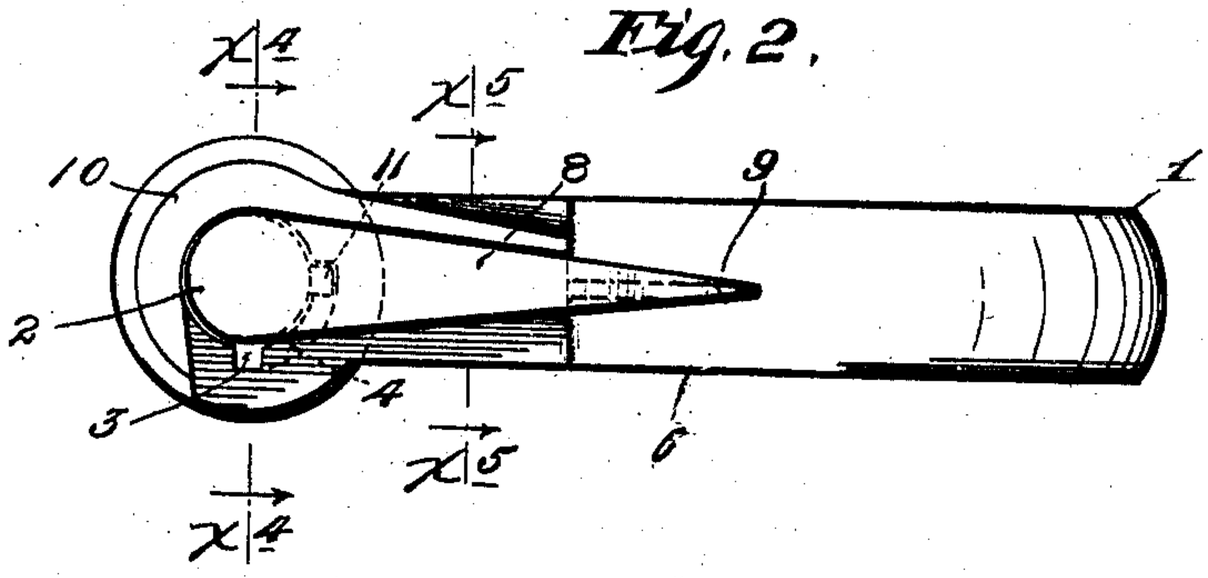


Fig. 3.

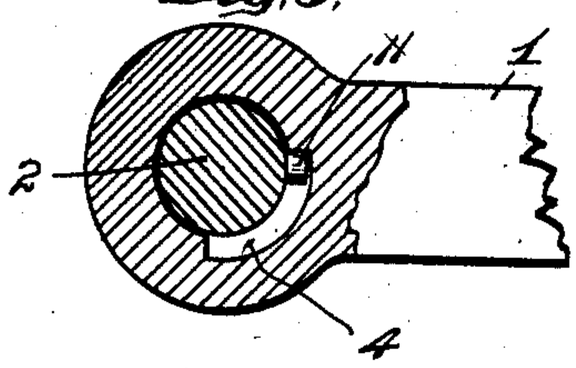


Fig. 4.

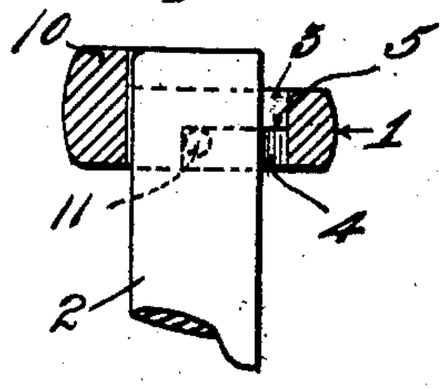
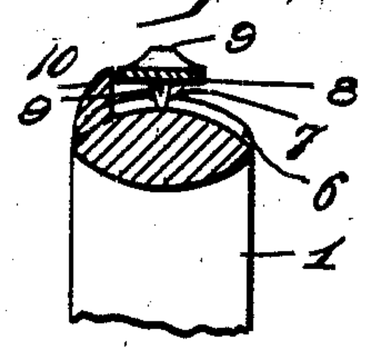


Fig. 5.



Witnesses.
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By his Attorneys.
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UNITED STATES PATENT OFFICE.

EDWIN J. J. GREGERSON, OF WOODVILLE, WISCONSIN.

INTERLOCKING CLEVIS.

No. 840,128. Specification of Letters Patent. Patented Jan. 1, 1907.

Application filed October 3, 1906. Serial No. 337,222.

To all whom it may concern:

Be it known that I, EDWIN J. J. GREGERSON, a citizen of the United States, residing at Woodville, in the county of St. Croix and State of Wisconsin, have invented certain new and useful Improvements in Interlocking Clevises; 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.

My invention has for its object to provide an improved interlocking clevis; and to this end it consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The improved device is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Referring to the drawings, Figure 1 is a view in elevation with some parts broken away and some parts sectioned, showing the improved clevis. Fig. 2 is a plan view of the same. Fig. 3 is a horizontal section on the line x^3 x^3 of Fig. 1, some parts being broken away. Fig. 4 is a vertical section on the line x^4 x^4 of Fig. 2, some parts being broken away; and Fig. 5 is a vertical section on the line x^5 x^5 of Fig. 2, some parts being broken away.

The body of the clevis, which is indicated by the numeral 1, is provided in the ends of its prongs with seats that close fit a detachable clevis bolt or pin 2. The seat in the upper prong of the clevis is provided with a vertically-extended notch or lock-lug passage 3, that opens into a segmental clearance-groove 4, formed in the upper prong of said yoke 1 and extending outward from and concentric with the lower portion of the pin-seat of the said upper prong. The said segmental clearance-groove 4 lies directly under a segmental lock-shoulder 5.

On the upper surface of the upper prong of the yoke 1 is a cam-surface 6, that is formed with a lock-groove 7. Formed integral with or otherwise rigidly secured to the upper end of the clevis-bolt 2 is a spring lock-lever 8, the free end of which is flattened to form a finger-piece 9, the lower edge of which engages with the lock-groove 7 to hold the bolt 2 against accidental rotation. On the upper prong of the yoke 1 is a guard-flange 10, that extends along one side of said lever and protects the same in such manner that a heavy object falling on the clevis cannot break the said lever. The clevis-bolt 2, near its upper end, is provided with a radially-projecting lock-lug 11, that is adapted to be passed vertically through the notch 3 and to be turned into the clearance 4 under the lock-shoulder 5.

As is evident, the bolt may be applied to the clevis or removed therefrom when, and only when, its lock-lug 11 is turned into registration with the notch 3. It is also evident that when the said lock-lug is turned under the lock-shoulder 5 and the end 9 of the spring-lever 8 is engaged with the notch 7 of the surface 6 the said bolt will be securely interlocked to the body of the clevis. It is also evident that when desired the spring-lever 8 may be readily pressed out of engagement with the notch 7 and turned into position for removal from the body of the clevis.

The device described, while simple and of small cost, is highly efficient for the purposes had in view.

What I claim is—

1. The combination with a clevis-yoke, of a clevis-bolt having interlocking engagement therewith under endwise and rotary movement, of a spring-lever applied to said bolt and having interlocking engagement with said clevis-yoke to hold said bolt in its interlocked position, substantially as described.

2. The combination with a clevis-yoke 1 having bolt-seats in its prongs, one of said prongs having adjacent to its bolt-seat a notch 3, segmental clearance 4 and lock-shoulder 5, of a clevis-bolt 2 having a spring-lever 8 and lock-lug 11, which lock-lug is adapted to be inserted through said notch 3, and turned into said clearance-groove 4 under said lock-shoulder 5, and which spring-lever is engageable with a seat formed on said clevis-yoke, substantially as described.

3. The combination with a clevis-yoke 1, having bolt-seats in its prongs and having on one of its prongs, adjacent to its bolt-seat, a notch 3, segmental clearance-groove 4 and

lock-shoulder 5, the said prong of said yoke having a guard-flange 10 and cam-surface 6 formed with lock-grooves 7, of a lock-bolt 2 provided with a lock-shoulder 11 and a spring-lever 8, which lock-lug is insertible through said notch 3 and is adapted to be turned into said groove 4 under said lock-shoulder 5, and the free end of which lever 8 is engageable with said lock-groove 7, substantially as described.

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

EDWIN J. J. GREGERSON.

Witnesses:

P. C. FINVOLD,

KATIE E. FINVOLD.