(No Model.)

C. C. SCHULER.

CLEVIS.

No. 565,513. Patented Aug. 11, 1896.

Fig. 1.

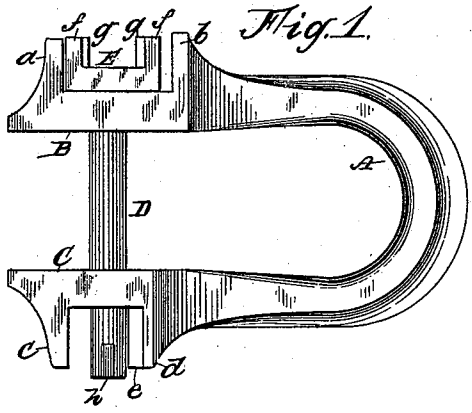


Fig. 2.

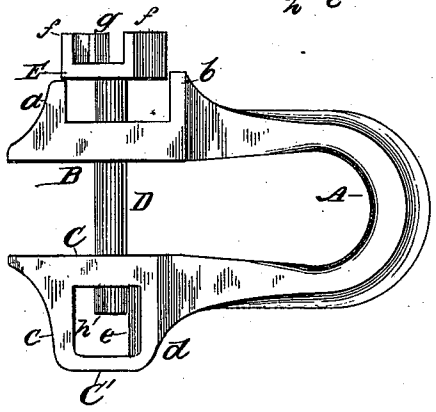


Fig. 3.

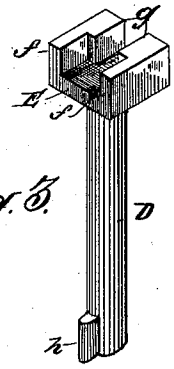
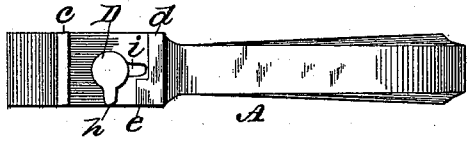


Fig. 4.



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CLEVIS.

SPECIFICATION forming part of Letters Patent No. 565,513, dated August 11, 1896.

Application filed March 25, 1896. Serial No. 584,848. (No model.)

To all whom it may concern:

Be it known that I, CHRIS C. SCHULER, a citizen of the United States, residing at Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in 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.

The object of this invention is to produce a clevis so constructed that its pin when in position is practically locked in place without the use of keys, nuts, or other parts, and with both clevis and pin adapted for use as wrenches on various-sized nuts, as will hereinafter fully appear, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of a clevis embodying my invention. Fig. 2 is a similar view of a modified form of the same, a guard being provided for the lower end of the pin. Fig. 3 is a view in perspective of the pin detached. Fig. 4 is a plan view of the clevis and pin from the under side.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A designates the body of the clevis, and B and C the upper and lower heads thereof, respectively. These are provided with jaws *a* and *b* above and *c* and *d* below, the former being separated more widely than the latter and each forming a solid wrench, as will be evident. The jaw *d* is provided with an offset *e*, forming an inwardly-projecting shoulder which not only makes a smaller-sized wrench, but serves as a stop for the lateral lug *h* on the lower end of the pin D and effectually prevents the pin from turning except in one direction.

The heads B and C are pierced by holes provided with a lateral notch *i* and similar to a short keyhole. These receive the pin D when placed in one position.

The head E of the pin is made rectangular, and when in position in the clevis one side of it lies close to the jaw *a*. The other jaw is so far removed as to permit the turning of the pin, as shown in Fig. 2, but is made a little longer than the jaw *a*, so as to extend above the head of the pin and the better protect it from injury or displacement.

The head of the pin itself forms a wrench adapted to fit two sizes of nuts, the jaws *f f* being provided with offsets *g g*, as shown.

An improvement in the form of the lower head is shown in Fig. 2, where the jaws *c* and *d* are joined by a bridge C′. This greatly strengthens the jaws and also serves to protect the lower end of the pin from catching on obstructions, to its displacement or injury.

It will be seen that the clevis-pin can only be inserted one way and withdrawn when in the same position. When turned to the position shown in Fig. 4, the only possible way to remove it is to lift it up as far as it will go, as shown in Fig. 2, turn it three-quarters around, and draw it out. The possibility of accidental detachment is therefore very limited. Even with the head detached from the locking-jaws which retain it the pin can only turn in one direction for removal, being stopped in the other direction by the shoulder *e* and lug *h*.

The construction is such as to give five changes as a wrench, and as a clevis the device is simple, cheap, and efficient.

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

1. The combination of the clevis A having the jaw *d* provided with an internal offset, the jaw *c* with a plane internal face, and the pin D having a lateral lug *h* adapted to engage said offset, the clevis being provided with a keyhole to receive said pin, and the jaws of the clevis being adapted to serve as a wrench for two sizes of nuts, as described.

2. A clevis having plane-faced jaw *c*, jaw *d* with an offset on its inner face, said jaws forming a wrench fitting two sizes of nuts, a pin provided with a lateral lug adapted to engage with said lug when in position, and a bridge connecting the outer ends of the jaws to strengthen them and serve as a guard for the lower end of the pin, as described.

3. The herein-described clevis-pin having the cylindrical body D provided at one end with a lateral lug *h* and at the other end with a rectangular head forming two internally-

offset jaws, whereby it may serve as a wrench fitting two sizes of nuts, as described.

4. The combination in a clevis, of the body A, jaws *a* and *b*, one of them longer than the other, and the pin D having lateral lug *h* and a rectangular wrench-head E, of practically the same height as the shorter jaw of the clevis, the longer jaw extending above it when in normal position, substantially as and for the purpose set forth.

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

CHRIS C. SCHULER.

Witnesses:
J. K. BENSON,
W. H. THOREN.