

(No Model.)

J. L. COLBERT, Jr.
CLEVIS.

No. 545,680.

Patented Sept. 3, 1895.

Fig-1-

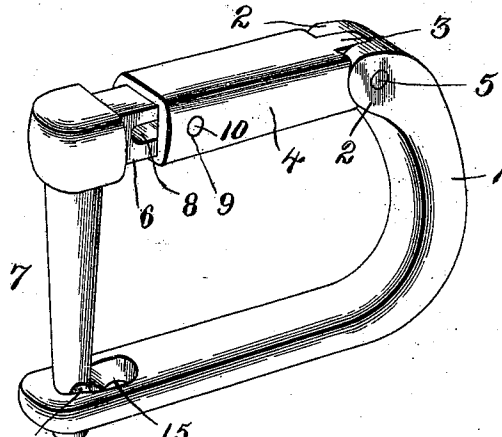


Fig-2-

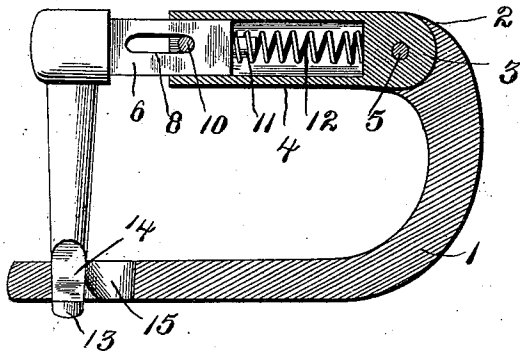


Fig-4-

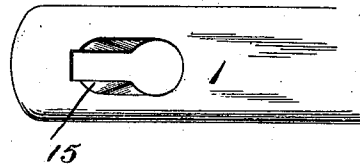
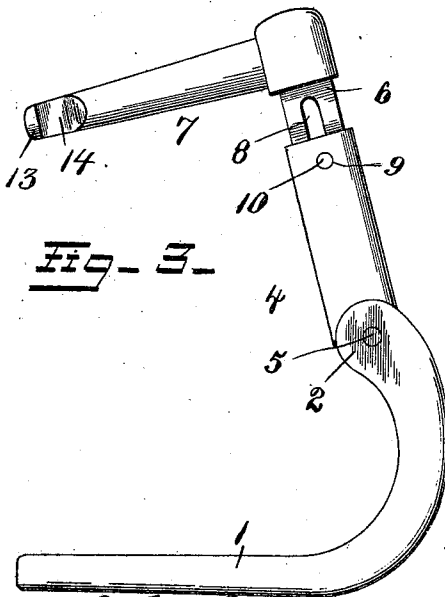


Fig-3-



Witnesses

Dr. J. North.
A. M. Smith

By his Attorneys,

Inventor
John L. Colbert, Jr.

Castro & Co.

UNITED STATES PATENT OFFICE.

JOHN L. COLBERT, JR., OF OGDEN, KANSAS.

CLEVIS.

SPECIFICATION forming part of Letters Patent No. 545,680, dated September 3, 1895.

Application filed May 21, 1895. Serial No. 550,105. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. COLBERT, JR., a citizen of the United States, residing at Ogden, in the county of Riley and State of Kansas, have invented a new and useful Clevis, of which the following is a specification.

This invention relates to an improvement in clevises.

The object of the present invention is to simplify and improve the construction of clevises and to provide an article of this nature in which the several parts are all so related and connected that the liability of one or more of the parts becoming detached or lost is entirely obviated.

Other objects and advantages of this invention will appear in the course of the subjoined description.

The invention consists in certain novel features and details of construction and arrangement of parts, as hereinafter fully described, illustrated in the drawings, and finally embodied in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a clevis constructed in accordance with this invention and shown closed. Fig. 2 is a section through the complete clevis, showing the arrangement of the locking-spring. Fig. 3 is a side elevation of the clevis shown open. Fig. 4 is a detail view of the slotted end of the bow member.

Similar numerals of reference designate corresponding parts in the several figures of the drawings.

Referring to the accompanying drawings, the clevis comprises a bow member 1, the forward or curved portion of which is bifurcated or provided with a pair of parallel ears 2, which are adapted to receive between them the tongue 3 of a hinged member 4. The ears 2 and tongue 3 are horizontally aligned and correspondingly perforated to receive a pin or pivot 5, by means of which the member 4 has a swinging movement relatively to the bow member 1. The hinged member is provided with a rectangular socket extending practically the entire length thereof, as indicated in the sectional view, Fig. 2, said socket being intended to receive the rectangular shank 6 of the bolt, indicated at 7. The shank 6 is fitted quite snugly within the socket of the hinged member 4 and is provided with

an elongated slot 8, extending longitudinally thereof. The hinged member 4 is provided near its free end with horizontally-aligning perforations 9, adapted to receive a pin or rivet 10, which passes also through the elongated slot 8 in the rectangular shank of the bolt. By this construction the bolt 7 has a sliding relation to the hinged member 4 and at the same time the outward movement of the bolt is limited, thereby preventing the accidental displacement and loss of said bolt.

The shank 6 is provided at its end with a cylindrical boss 11, which forms a seat for a spiral spring 12, which is arranged within the rectangular socket of the hinged member and interposed between the base of said socket and the adjacent end of the bolt-shank, said spring exerting its tension to normally hold the bolt 7 outward, or in the position indicated in the several figures of the drawings, and at the same time permitting the bolt to be pressed inward for a purpose that will appear.

The opposite end of the bolt to that which carries the shank 6 is provided with a head 13, formed by notching the bolt upon opposite sides adjacent to its end, as indicated at 14. The rear end of the bow member 1 is formed with a keyhole-slot 15, the inner enlarged portion of said slot corresponding in size and configuration to the diameter of the head 13 of the bolt, adapting said head to be passed through the same. The narrow portion of said slot corresponds to the thickness of the bolt 7 between the opposing notches 14, which form the head of said bolt, by means of which it will be apparent that after the head 13 has been inserted through the enlarged end of the slot 15 the bolt may be moved so as to bring the head thereof into engagement with the shoulders formed in the end of the bow member by decreasing the width of the slot. It will thus be seen that the bolt is effectually prevented from being withdrawn from its engagement with the slot in the bow member until the pressure of the spring within the socket of the hinged member is overcome, which may be accomplished by pressing the bolt inward relatively to said hinged member. The keyhole-slot 15 is provided with a tapering or inclined mouth, opening inward from the inner face of the bow member, and the head 13 of the bolt is rounded off as shown,

this construction serving to facilitate the insertion of the bolt-head through said keyhole-slot.

5 The clevis above described is adapted to any of the uses to which devices of this nature are generally put. The construction forms a very simple and durable clevis, and the latter may be easily and quickly engaged with or disengaged from a whiffletree, tongue, or any other article.

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

15 Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

20 1. A clevis comprising a bow member, a hinged member pivoted thereto, a bolt having a sliding relation to the hinged member, and a spring for holding said bolt in engagement with the bow member, substantially as described.

25 2. A clevis comprising a bow member, a hinged member pivoted thereto and formed with a socket therein, a bolt provided with a shank mounted to slide within the socket of the hinged member, and a spring for holding said bolt in engagement with the bow member and allowing the same to be disengaged therefrom, substantially as specified.

30 3. A clevis comprising a bow member, a

hinged member having a socket therein, a bolt having a slotted shank mounted to slide within the socketed hinged member, a pin or rivet carried by the hinged member and engaging the slotted shank of the bolt, and a spring for holding said bolt in engagement with the bow member, substantially as described.

4. A clevis comprising a bow member, a hinged member provided with a rectangular socket, a bolt having a rectangular slotted shank, a pin carried by the hinged member and engaging said slotted shank, and a spiral spring arranged within the socketed member and operating to hold the bolt in engagement with the bow member, substantially as specified.

5. A clevis comprising a bow member having a keyhole slot therein, a hinged member pivoted to said bow member, a bolt having a sliding relation to the hinged member and provided with a head for engaging said keyhole slot, and a spring for holding the head of the bolt into engagement with the keyhole-slot in the bow member, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN L. COLBERT, JR.

Witnesses:

A. D. PIMBECKER,
C. B. DODGE.