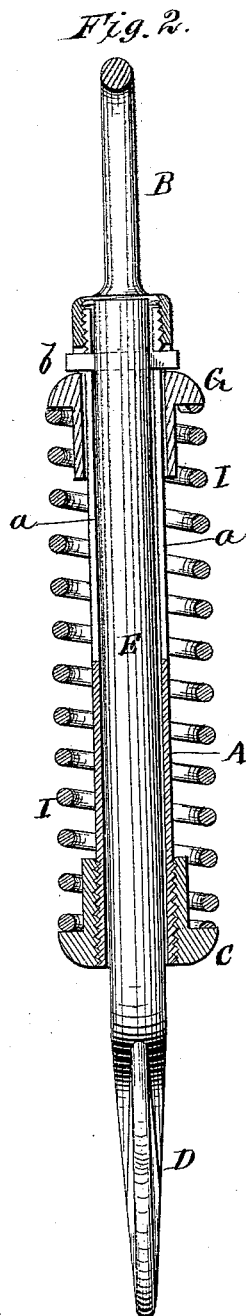
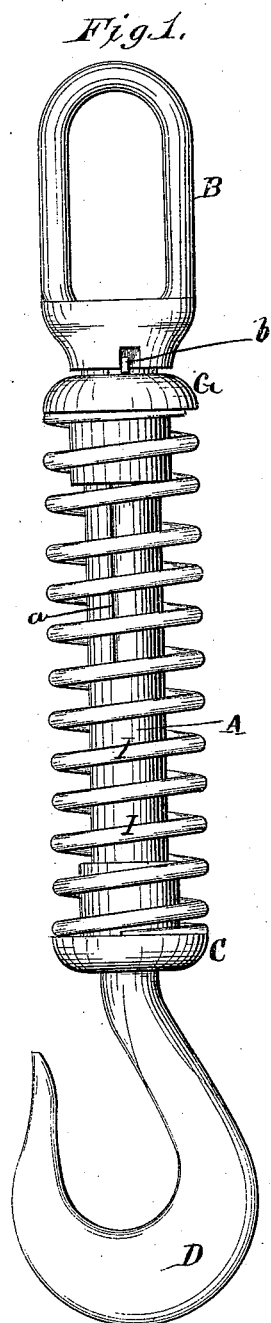


J. F. CHASE.
SPRING CLEVIS.

No. 181,313.

Patented Aug. 22, 1876.



Witnesses:
C. L. Curt.
H. V. Miller

Inventor:
John F. Chase

UNITED STATES PATENT OFFICE.

JOHN F. CHASE, OF EAST HADDAM, CONNECTICUT.

IMPROVEMENT IN SPRING-CLEVISES.

Specification forming part of Letters Patent No. **181,313**, dated August 22, 1876; application filed August 17, 1876.

To all whom it may concern:

Be it known that I, JOHN F. CHASE, of East Haddam, (post-office address, Hadlyme, Connecticut,) in the county of Middlesex, and in the State of Connecticut, have invented certain new and useful Improvements in Spring-Clevis; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a spring-clevis, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of my improved spring-clevis, and Fig. 2 is a longitudinal section of the same.

A represents a hollow tube, provided at one end with the link B, and at the other end with a flanged collar, C, said collar being screwed or otherwise permanently affixed to it. The tube A is further provided with longitudinal slots *a a* on opposite sides, extending from the link B for a suitable distance. D represents a hook formed with a shank or stem,

E, which is inserted in the tube A, and has a key, *b*, passed through its inner end, the ends of which key extend through the slots *a* in the tube, as shown. Around this end of the tube A is placed a flanged collar, G, which is loose and slides on the tube. Between the two collars C and G is a spiral spring, I, surrounding the tube, and holding the loose collar G against the key *b*. When the draft is applied the spring I is compressed by the shank or stem E, being pulled outward, and the key *b* therein moving the collar G toward the outer end of the tube, and thus the dead pull of the team in starting is entirely obviated.

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

The hollow slotted tube A, having the fixed collar C at one end, and the sliding collar G and link B at the other, in combination with the hook D, having stem E, the key *b*, and spring I, all constructed and operating substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand this 17th day of August, 1876.

JOHN F. CHASE.

Witnesses:

C. L. EVERT,
WILLIAM L. BRAMHALL.