

F. W. KNAPP & C. SCHALLHORN.

SAFETY-GUARDS OR COCK-EYES FOR HARNESS.

No. 185,334.

Patented Dec. 12, 1876.

Fig. 1

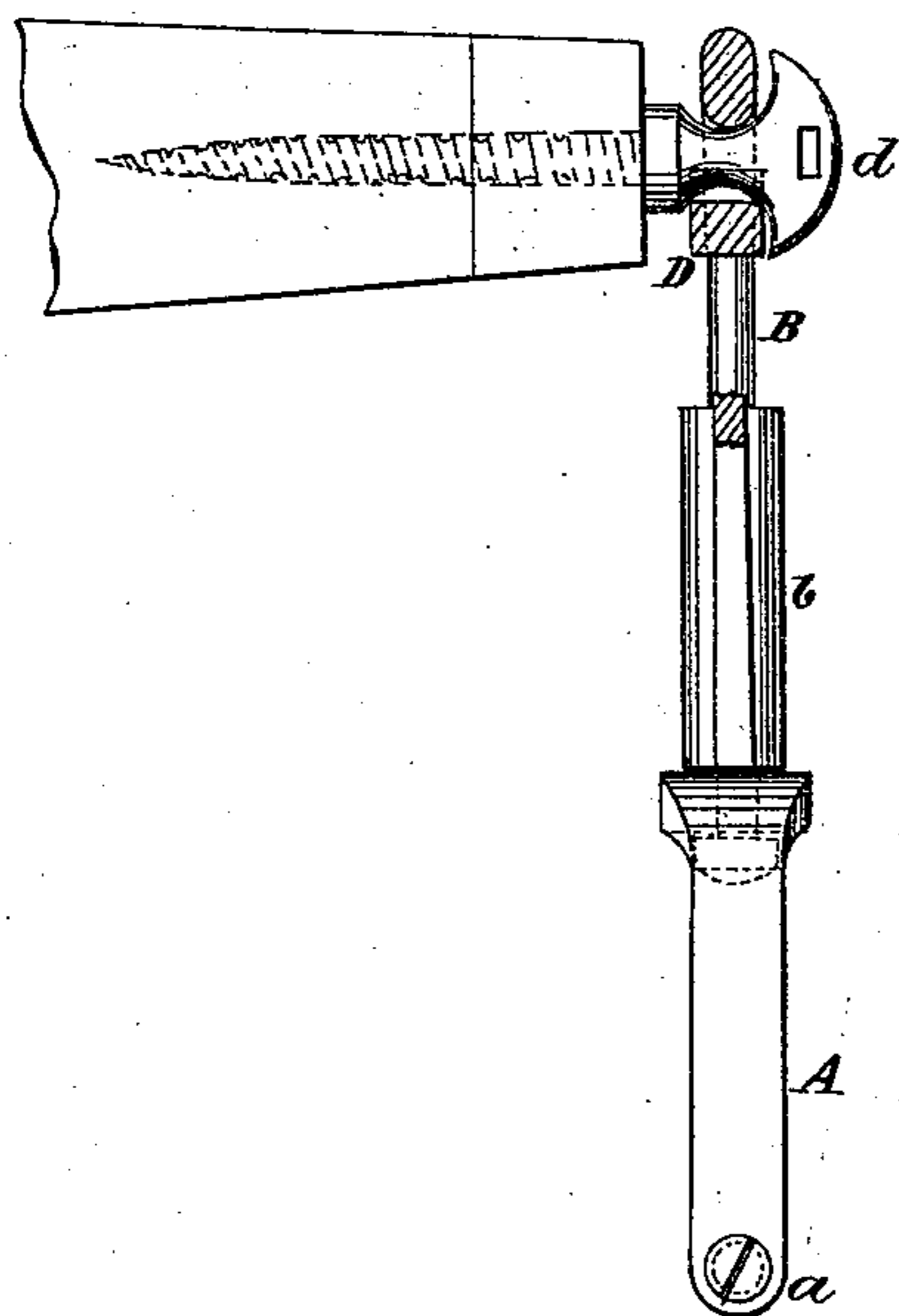


Fig. 2

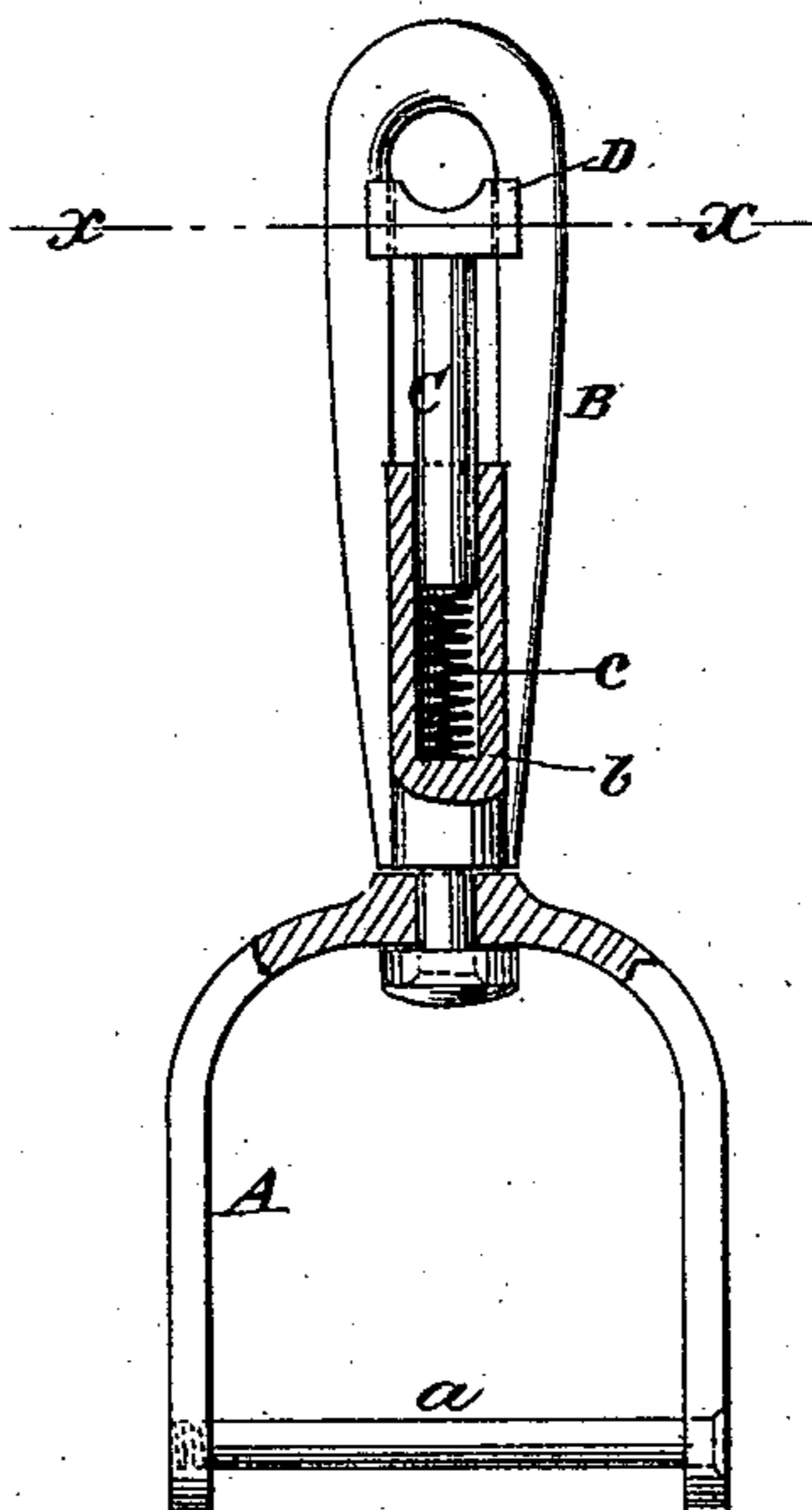
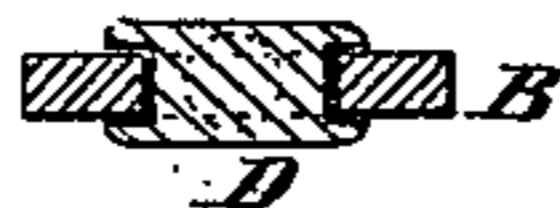


Fig. 3



WITNESSES:

*A. W. Almgvist*  
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INVENTOR:

*F. W. Knapp*  
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# UNITED STATES PATENT OFFICE.

FAYETTE W. KNAPP AND CHRISTOPHER SCHALLHORN, OF FIDDLTOWN,  
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## IMPROVEMENT IN SAFETY GUARDS OR COCKEYES FOR HARNESS.

Specification forming part of Letters Patent No. 185,334, dated December 12, 1876; application filed  
June 20, 1876.

*To all whom it may concern:*

Be it known that we, FAYETTE W. KNAPP and CHRISTOPHER SCHALLHORN, of Fiddletown, in the county of Amador and State of California, have invented a new and Improved Safety Guard or Cockeye for Harness, of which the following is a specification:

In the drawing, Figures 1 and 2 are elevations with portions cut away. Fig. 3 is a section on line *xx* in Fig. 2.

Similar letters of reference indicate corresponding parts.

Our invention consists in a peculiar construction of the cockeye which connects the trace with the single-tree. The eye which embraces the single-tree is swiveled to the yoke, which is attached to the trace, and is provided with a spring-actuated cross-head or follower, between which and the end of the eye the hook or stud which is upon the end of the single-tree is embraced.

A is a yoke, which is provided with a cross-bar, *a*, and does not differ from the corresponding part of the ordinary cockeye. B is a long eye or loop, which is swiveled to the yoke A in any convenient manner, and is chambered out at *b* to receive the spring *c*. C is a plunger, which abuts upon the spring *c*, and is provided with a follower, D, having a semicircular notch cut in it, which corresponds to the form of the inside of the end of the loop B. The cross-head D is provided with guiding-lips, which extend over the sides of the loop B, as in Fig. 3.

By virtue of the yielding of the spring *c* the space between the follower D and the end of the loop B adjusts itself to studs or hooks *d* of any size.

To place the cockeye upon the single-tree it is only necessary to force the follower D back with the stud *d* and slip the loop B over the stud, when the spring *c* causes the follower D to bear firmly upon the stud *d*.

The advantages claimed for our invention are its absolute safety, it being impossible for the trace to become accidentally loosened from the single-tree, and as the spring *c* holds the eye firmly on the single-tree, the wear and noise consequent upon continued jarring and friction are avoided. It is also simple and easily constructed.

By using a swivel the trace will never be twisted, and the force will always be exerted in a straight line, thus avoiding the possibility of fracture or breakage from this cause.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

A cockeye for connecting trace and single-tree, having a loop swiveled to yoke, and a plunger, to the end of which is attached a follower with guide-lips, substantially as shown and described.

FAYETTE W. KNAPP.

CHRISTOPHER SCHALLHORN.

Witnesses:

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EDWARD W. NEFF.