

(No Model.)

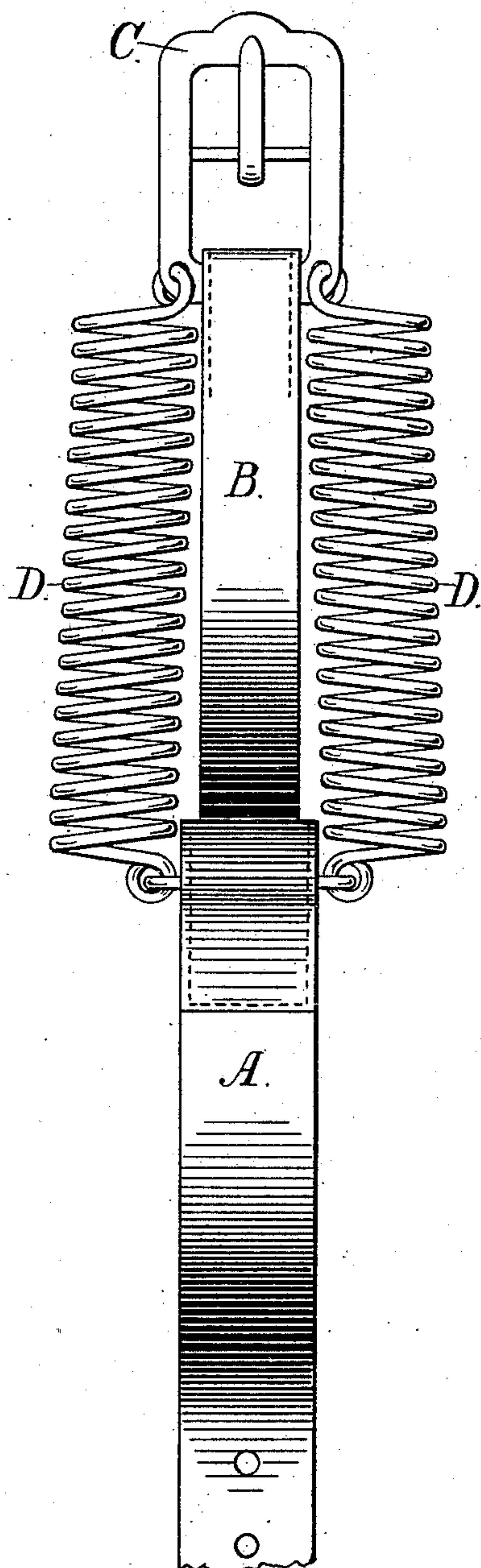
J. T. CLARKSON.

HARNESS.

No. 293,950.

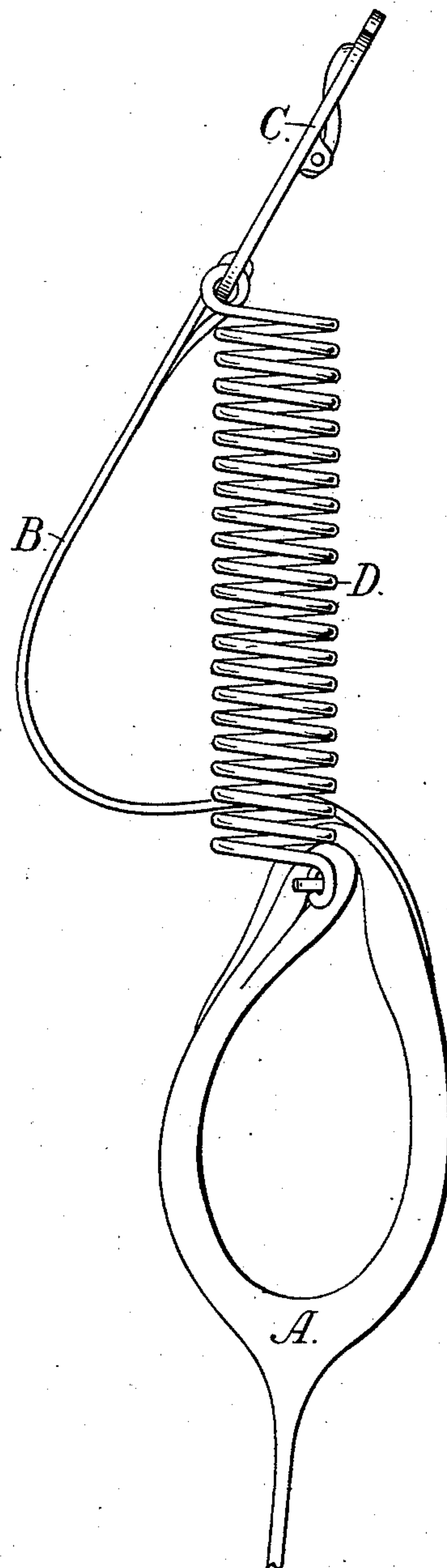
Patented Feb. 19, 1884.

*Fig. 1.*



Witnesses:  
Ralph E. Clarkson.  
W. J. Clarkson.

*Fig. 2.*



Inventor:  
Joseph T. Clarkson

# UNITED STATES PATENT OFFICE.

JOSEPH T. CLARKSON, OF AMESBURY, MASSACHUSETTS.

## HARNESS.

SPECIFICATION forming part of Letters Patent No. 293,950, dated February 19, 1884.

Application filed July 18, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH T. CLARKSON, a citizen of the United States, residing at Amesbury, in the county of Essex and State of Massachusetts, have invented new and useful Improvements in Harness, of which the following is a specification.

The object of my invention is to prevent the motion which is communicated to the shafts of vehicles by the rising and falling of the horse's back when in motion. I attain this object by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation, and Fig. 2 is a side elevation, of my invention.

Similar letters refer to similar parts throughout the several views.

The lug A, in which the shafts are carried, is attached to the "lug-buckle" C by spiral springs D. The lug-buckle C is attached to the saddle in the usual manner. The strap B is fastened to the lug A and the buckle C, and is designed to limit the elasticity of the springs, as well as to act as a safety-strap in case the springs should give way.

The elastic connection between the lug and

the saddle may be obtained by substituting rubber or other flexible material for the springs; but I think the best results are obtainable with the brass or steel spiral springs, as shown. If necessary, springs may be put on below the lug, so as to make a complete elastic connection above and below.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, with a shaft-lug, of the elastic connection shown and described, and the limit or safety strap, all substantially as set forth.
2. The combination, with the shaft-support A, provided with a suitable attaching-buckle, of the elastic connection, all substantially as shown and described.
3. The combination, with a shaft-lug, of the spiral springs D D, limit-strap B, and buckle C, all substantially as and for the purpose described.

JOSEPH T. CLARKSON.

Witnesses:

GEORGE H. BRIGGS,  
W. T. CLARKSON.