

W. P. EMMERT.
Elastic Check-Rein Holders.

No. 223,440.

Patented Jan. 13, 1880.

Fig. 1.

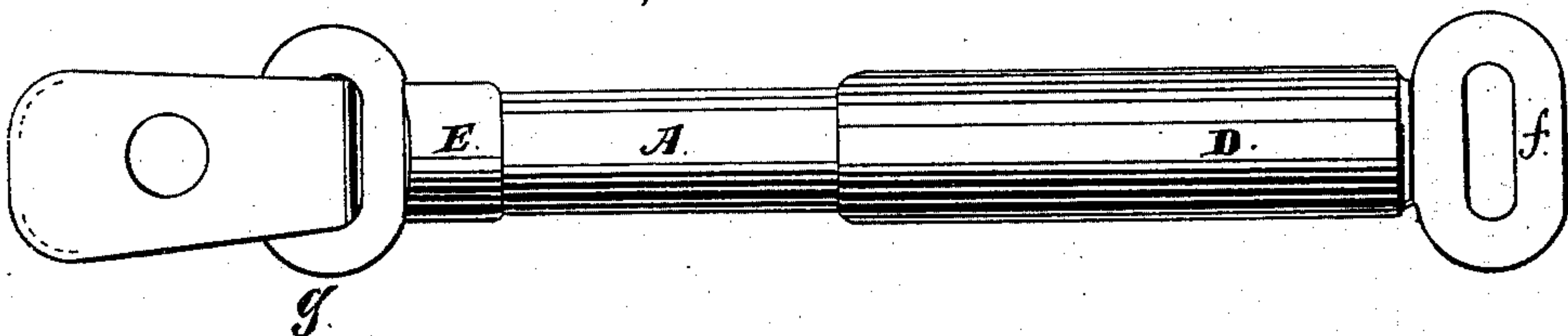
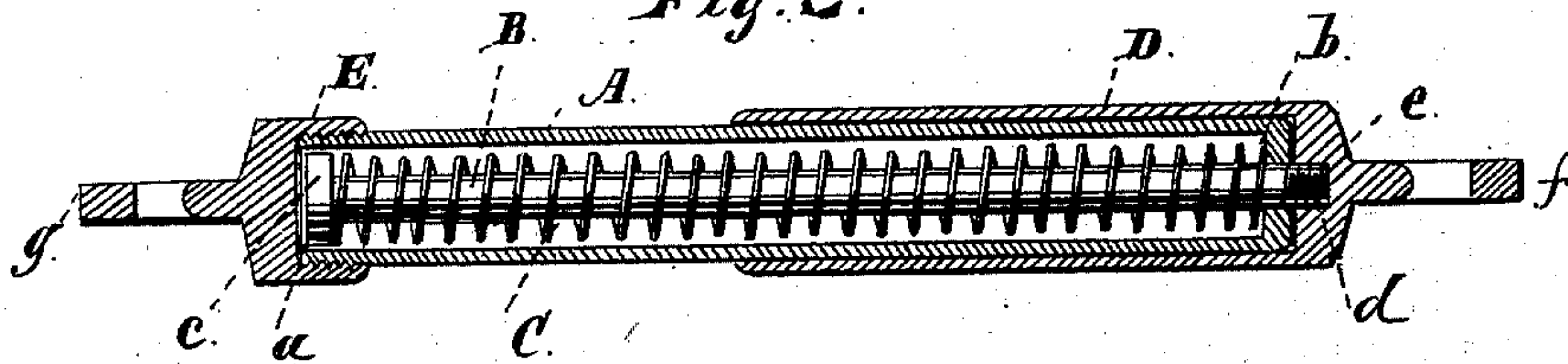


Fig. 2.



Witnesses:

Leiv. L. Bruns
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Inventor:

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UNITED STATES PATENT OFFICE.

WILLIAM P. EMMERT, OF FREEPORT, ILLINOIS.

ELASTIC CHECK-REIN HOLDER.

SPECIFICATION forming part of Letters Patent No. 223,440, dated January 13, 1880.

Application filed July 14, 1879.

To all whom it may concern:

Be it known that I, WILLIAM P. EMMERT, of Freeport, Stephenson county, State of Illinois, have invented a new and useful Improvement in Elastic Check-Rein Holders, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a view of the complete device.
Fig. 2 is a central longitudinal section.

The leading object of this invention is to provide a device to be used in connection with a check-rein for the purpose of rendering the same somewhat yielding; and it consists in the mechanism hereinafter described and claimed.

In the drawings, A is a cylindrical case, one end of which, *a*, is open. The other end is partly closed, and so as to form a shoulder, *b*. B is a rod, on one end of which is a head, *c*, fitting within the cylinder or case A. The other end is provided with a screw-thread, *d*. This rod is of such length that it passes through and projects beyond the end of the case A, which is provided with the shoulder *b*.

C is a coil-spring encircling the rod B. It is placed in the case A and between the head *c* and shoulder *b*.

D is an outer case, into which the case A, or one end thereof, fits. The end *e* of this case is closed and solid, and is adapted on the inside to receive the screw-threaded end *d* of the rod B, and it is provided with an eye, *f*, to receive a strap.

E is a cap secured to the open end of the case A by means of a screw-thread, and *g* is an eye upon this cap to receive a strap.

The several parts are to be put together by placing the rod B, with its encircling spring C, in the case A; then the case A is to be inserted in the case D, and the rod B is to be screwed into the end *e* of the case D, which can be done by means of a wrench inserted in holes in the head *c*; then the cap E is brought to its place.

In use the device is to be connected with the check-rein in any suitable manner, becoming, in fact, a part of the rein. This may be done by passing the rein through the eye *f*, the other eye, *g*, being provided with a suitable

strap, which can be placed over the hook on the harness.

The spring C is to be of such strength that under ordinary circumstances the several parts of the device will, when in use, be in the position shown in the drawings.

If the horse stumbles, or if from other cause there should be any sudden downward movement of his head, the spring will be compressed, one case sliding over the other, and thus the device will be elongated, in effect lengthening the check-rein for the time being, and relieving the animal.

It will be observed that one end of the rod B is connected with the head or end of the case D, while such rod can move through the end of A, or this case A can move over the rod. Hence, if one end of the device be held and a pulling strain be applied to the other end, one of the cases must move over or within the other, lengthening the device.

A close-coiled spring might be used, so arranged that the draft will have a tendency to open the coil.

I am aware that devices somewhat similar to mine have been used for making tugs elastic; but the construction of such devices differs materially from that which I have shown.

I do not claim, broadly, all mechanisms containing a spring by the use of which a check-rein can be made elastic, but limit myself to the construction shown and described.

My device, while primarily designed to be used in connection with a check-rein, may be applied to other analogous uses.

For ordinary purposes the case A may be about five inches long and the case D may be about three inches in length. They may be made of metal or other suitable material.

What I claim as new, and desire to secure by Letters Patent, is as follows:

The combination of the case A, rod B, spring C, case D, and cap E, all constructed and operating substantially as and for the purpose specified.

WILLIAM P. EMMERT.

Witnesses:

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