

A. McKELLAR.
Axle-Skein.

No. 224,935.

Patented Feb. 24, 1880.

Fig. 1.

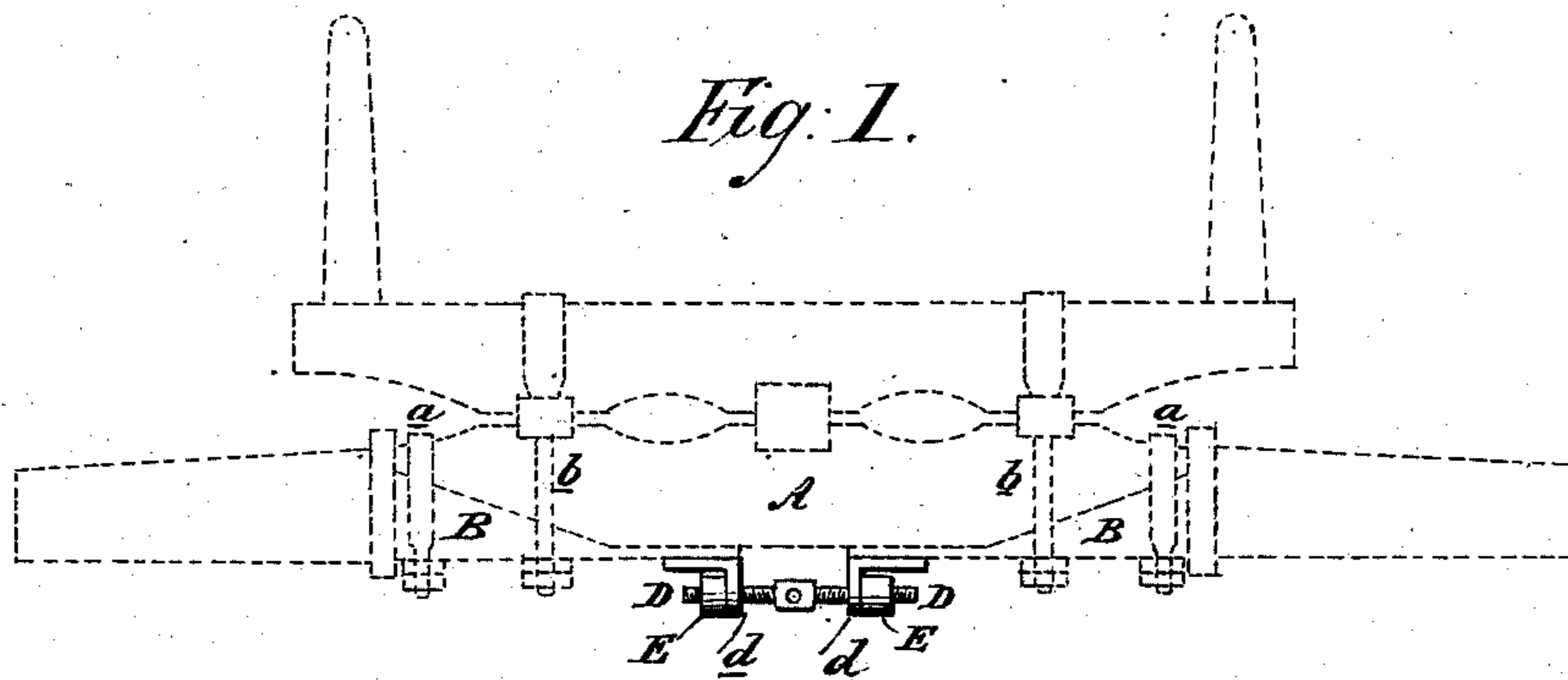


Fig. 2.

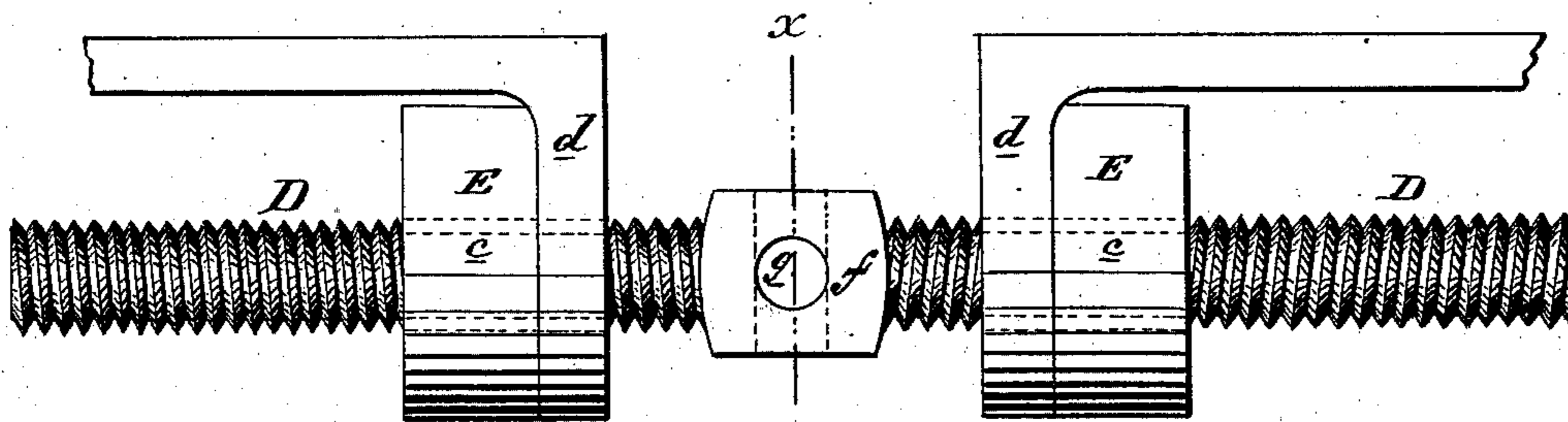
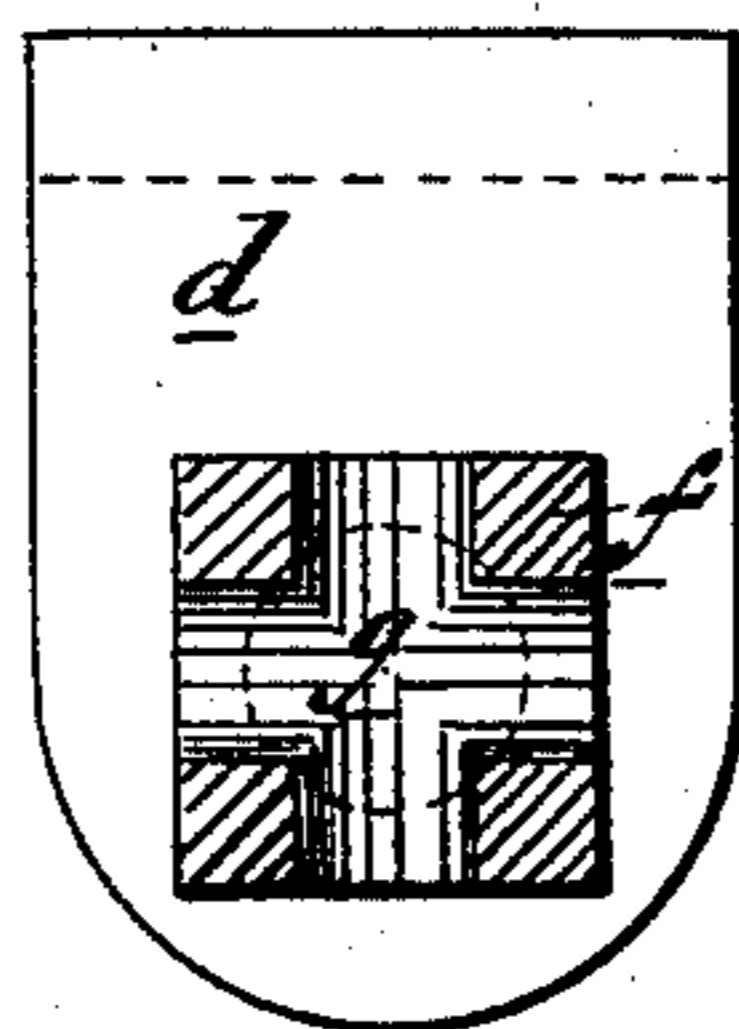


Fig. 3.



WITNESSES:

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ANGUS McKELLAR, OF FORT DOUGLAS, UTAH TERRITORY.

AXLE-SKEIN.

SPECIFICATION forming part of Letters Patent No. 224,935, dated February 24, 1880.

Application filed December 8, 1879.

To all whom it may concern:

Be it known that I, ANGUS McKELLAR, of Fort Douglas, in the county of Salt Lake, Utah Territory, have invented a new and Improved Device for Tightening Axle-Skeins, of which the following is a specification.

Figure 1 represents the device attached to the skeins of a wagon-axle. Fig. 2 is an enlarged longitudinal elevation of the device. Fig. 3 is a sectional elevation on line *xx*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a simple device for drawing up the metallic skeins on an axle and holding them tightly in place as they become loose from the shrinkage of the wooden axle.

In the drawings, A represents an axle. B indicates an axle-skein extending along the axle A from either end thereof, and held thereto by clips and bolts *a b*, as indicated in dotted lines, Fig. 1. *dd* are the bent or flanged ends of the skein B, provided with holes *c*. Through these bent or flanged ends *d d* is passed a double right and left screw, D, having, preferably, a square center, *f*, with a hole, *g*, through each face of it, so that either a wrench or a rod can readily be applied to turn the screw D for the purpose of drawing up and tightening the skeins B.

The holes in the flanges *d* being larger than the screw, and without threads, the screw passes freely through them, and is secured by the clamp-nuts E after the heated skeins have been driven into place.

This device can be advantageously applied to most of the skeins now in use for the purpose of drawing them up and tightening them as the axle shrinks, and thereby preventing their rattling and working loose; but when applied to skeins that are held in place by bolts, as shown at *b*, Fig. 1, the bolts must be dispensed with, or the skeins be slotted about the bolts, so that they (the skeins) can be drawn together if necessary.

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

The combination of the right and left screw D, the axle-skein flanges *d*, and the clamp-nuts E, the screw passing loosely through the flanges, as shown and described, whereby the skein can be driven into place without interfering with the screw.

ANGUS McKELLAR.

Witnesses:

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HENRY HARTMAN.