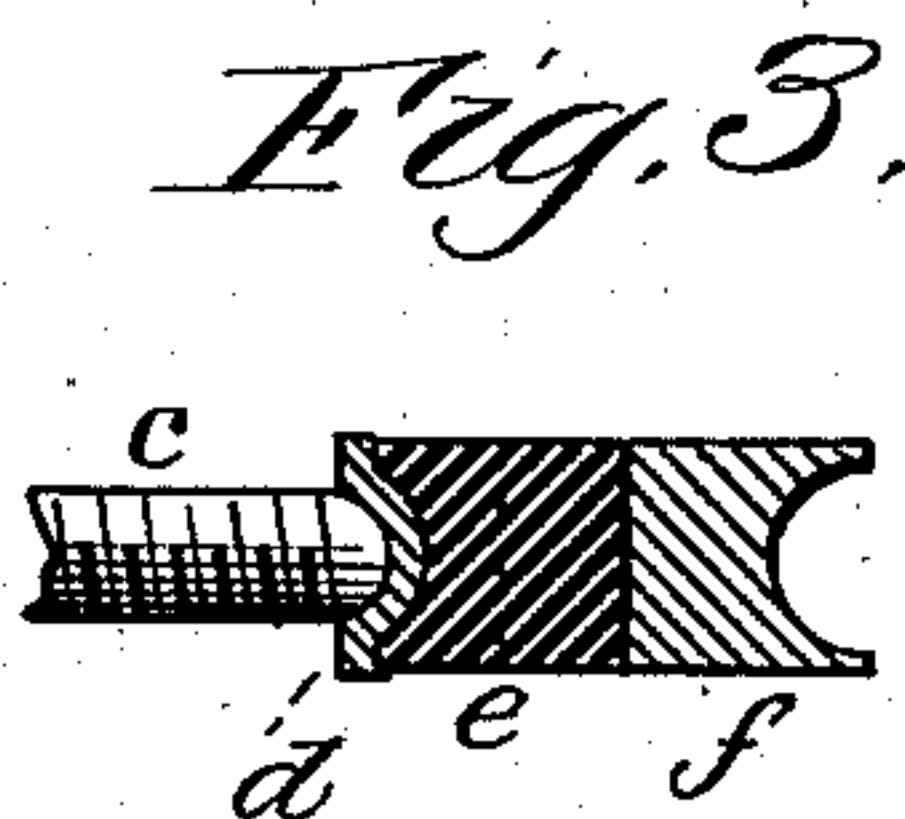
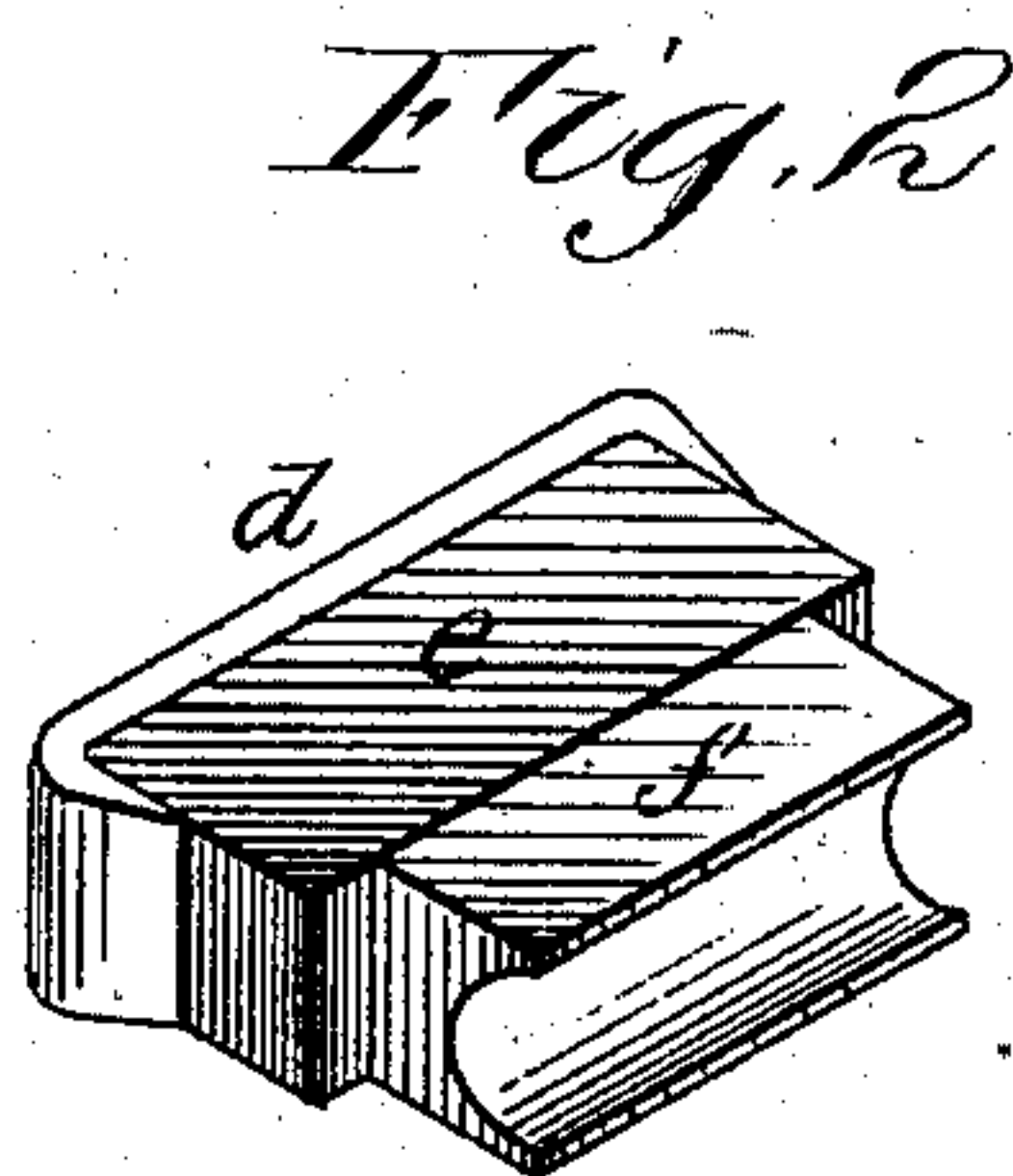
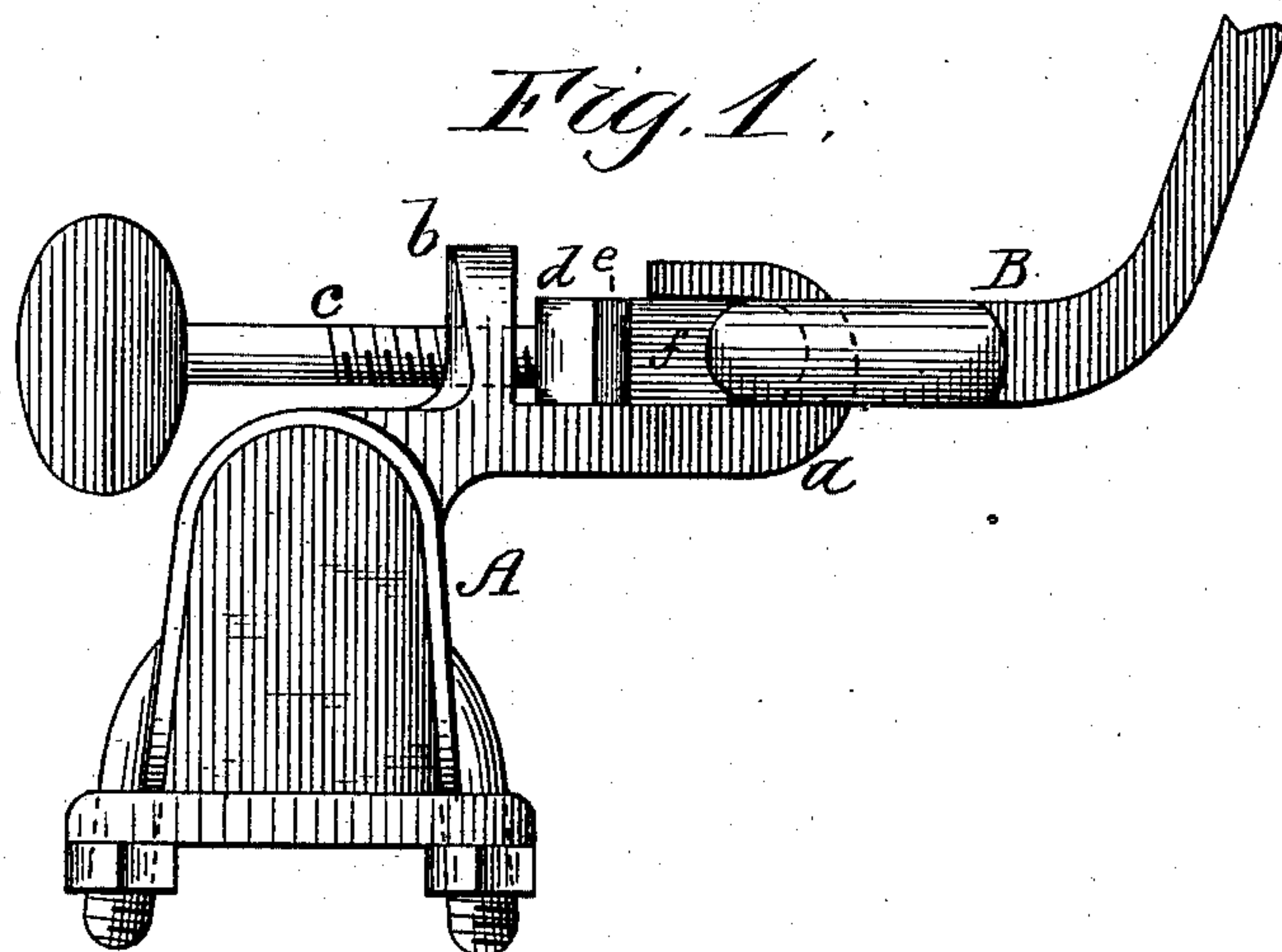


(No Model.)

A. WALTER.
Thill Coupling.

No. 238,316.

Patented March 1, 1881.



WITNESSES

Nat. E. Oliphant,
Geo. B. Porter,

INVENTOR

Adolf Walter,
per Cha. H. Fowler,
Attorney.

UNITED STATES PATENT OFFICE.

ADOLF WALTER, OF FREMONT, OHIO.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 238,316, dated March 1, 1881.

Application filed July 30, 1880. (No model.)

To all whom it may concern:

Be it known that I, ADOLF WALTER, a citizen of the United States, residing at Fremont, in the county of Sandusky and State of Ohio, have invented certain new and useful Improvements in Draw-Clips and Couplings; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a side elevation of my invention, and Figs. 2 and 3 detail views thereof.

The present invention relates to certain new and useful improvements in draw-clips and couplings for attaching the shafts to the forward axles of vehicles; and the object thereof is to provide a simple and effective device for preventing the shafts from becoming detached from the axle, and also from getting out of order by the wearing of the clip.

A further object is to prevent all wear and rattling and render the clip less liable to break the king-bolt or king-bolt tie-brace, and to cause it to pull higher on the axle and with less twist, pulling nearer on a line with the reach or king-bolt than the clips heretofore in use.

The above advantages I attain by the construction as shown in the drawings and hereinafter described.

In the accompanying drawings, A represents the clip, formed with hook *a* for the reception of the thill-iron B. The clip A is formed with an upright lug, *b*, having a screw-opening, through which passes horizontally a thumb-screw, *c*, the end thereof bearing against the

back of a metal shoe, *d*. This shoe receives and holds a rubber or other elastic cushion, *e*, which is caused to bear against the end of the thill-iron. If desired, however, a metal follower, *f*, may be used in addition to the elastic cushion, the same being placed in front of it to bear against the thill-iron, the follower being hollowed out, or having a semicircular groove on its face, to correspond with the convexity of the thill-iron, against which it comes in contact.

The advantages of having the thumb-screw horizontal and passing through the lug *b* at the upper portion of the clip or over the axle, as shown in Fig. 1, are that it is in position to be more conveniently operated in adjusting the rubber cushion and follower against the thill-iron, and the clip is readily removed and applied to any axle without injury thereto, as the thumb-screw does not pass through the same, as heretofore.

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

The clip A, formed with the hook *a* and upright lug *b*, in combination with the thill-iron B, cushion *e*, shoe *d*, and thumb-screw *c*, said screw passing horizontally through the lug above the axle and bearing against the shoe, substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ADOLF WALTER.

Witnesses:

M. E. TYLER,

ADAM E. GOMPERT.