

JEHU C. MOORE.

Improvement in Thill Coupling.

No. 118,381.

Patented Aug. 22, 1871.

Fig. 1.

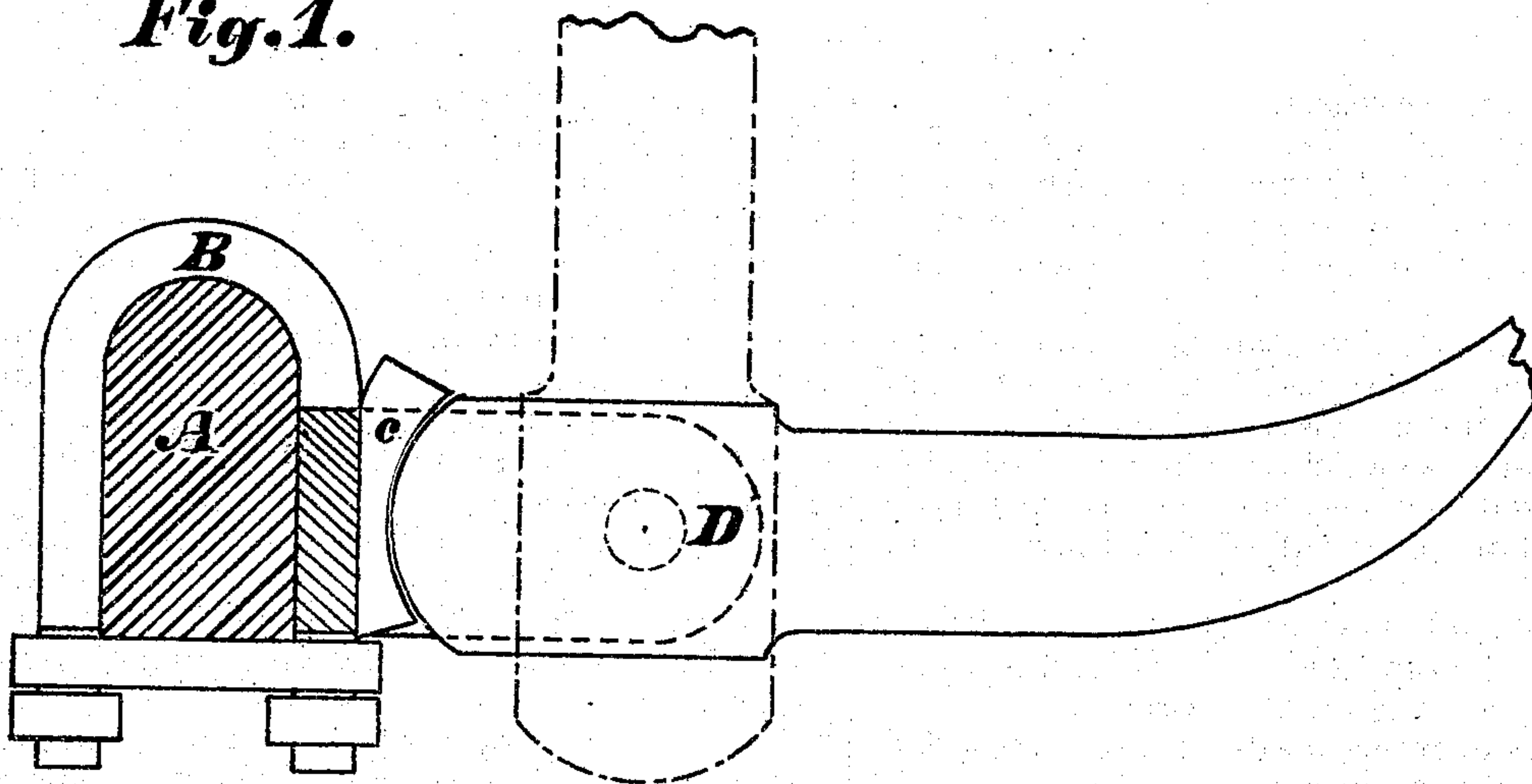
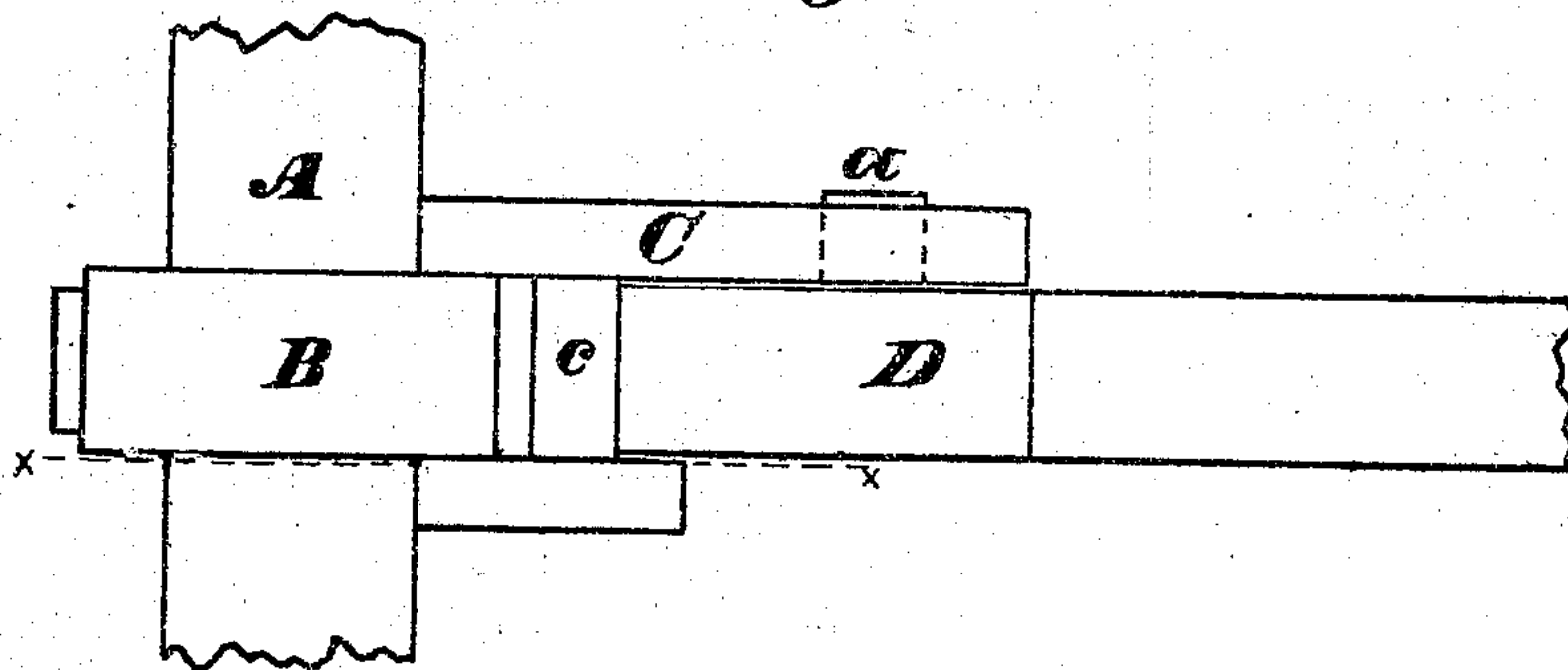


Fig. 2.



Witnesses:

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JEHU C. MOORE, OF MADISON, INDIANA.

IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. 118,381, dated August 22, 1871.

To all whom it may concern:

Be it known that I, JEHU C. MOORE, of Madison, in the county of Jefferson and State of Indiana, have invented an Improvement in Thill-Couplings, of which the following is a full specification:

The object of my invention is to so construct a coupling that it may be readily connected and disconnected, and at the same time be perfectly noiseless when the vehicle to which it is attached is in use. My object has also been to obtain great strength and simplicity of construction and durability.

Figure 1 is a side view of my coupling with the short jaw of the clip removed. Fig. 2 is a plan of the same, showing all the parts.

Like letters of reference designate corresponding parts in all the figures.

A represents the axle; B, the clip; C, the long jaw, and C' the short jaw of the same. D is the shackle or thill-iron. This shackle is provided with a lug, *a*, which fits into a hole in the long jaw of the clip. The said lug does not project from the center of the shackle, which causes the latter to act as a cam which has its two short sides straight and parallel and its long side rounded. The form of this cam is distinctly shown in Fig. 1. The rounded end of the cam acts by press-

ing against an elastic backing of India rubber, which renders the coupling noiseless.

The manner of connecting the shackle with the clip is as follows: The thills are held vertical, as indicated by dotted lines in Fig. 1, and in this position the cam of the shackle just clears the jaw C' of the clip and allows the lug *a* to enter the hole in the jaw C. The thills are now brought down to their proper position, as shown in the drawing, and cannot be disconnected but by raising them again, as, while in this position, the long or rounded side of the shackle-cam is engaged between the two jaws of the clip. The object of the short jaw C' will be too clearly understood from the above and the drawing to need further description.

It may be well to state that after the lug *a* on one shackle is inserted the other may be engaged by slightly springing the thills.

I claim—

The cam-shaped shackle D, provided with a lug, *a*, when combined and arranged to operate with the long jaw C and short jaw C' of the clip B, and the elastic backing *e*, in the manner shown and for the purposes specified.

Witnesses: JEHU C. MOORE.

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