

(No Model.)

J. LAUTH.
THILL COUPLING.

No. 271,642.

Patented Feb. 6, 1883.

Fig. 1.

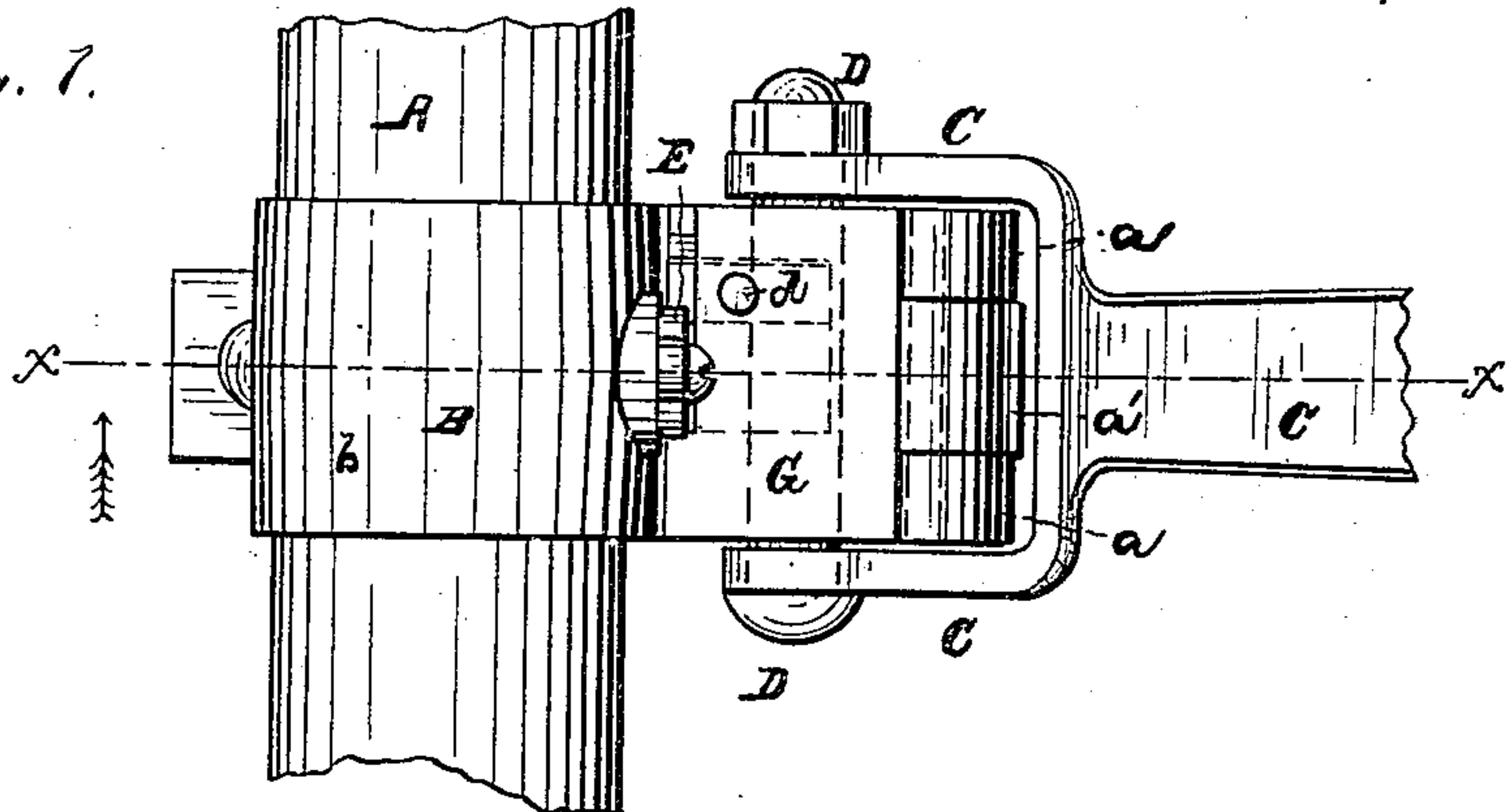


Fig. 2.

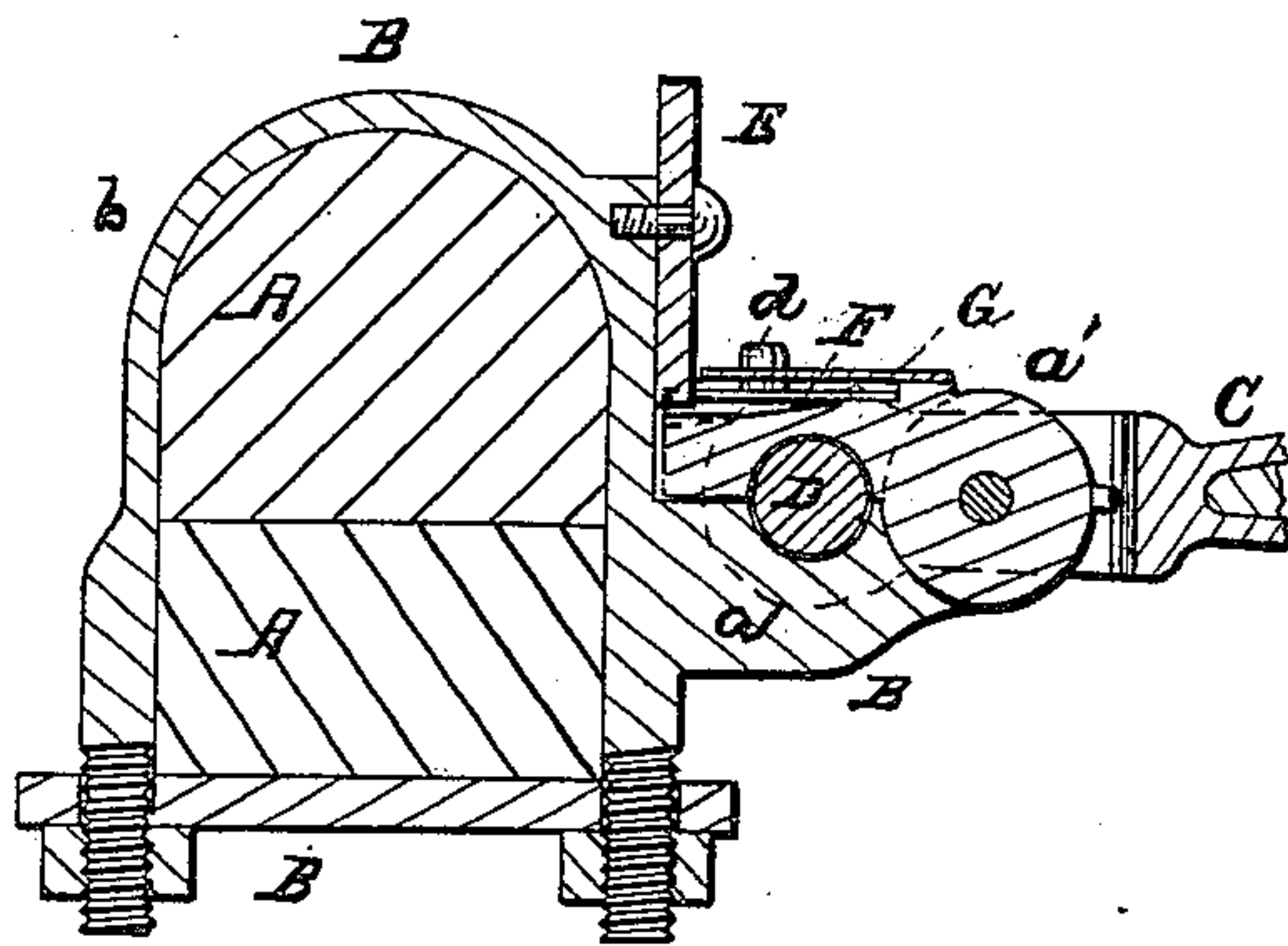
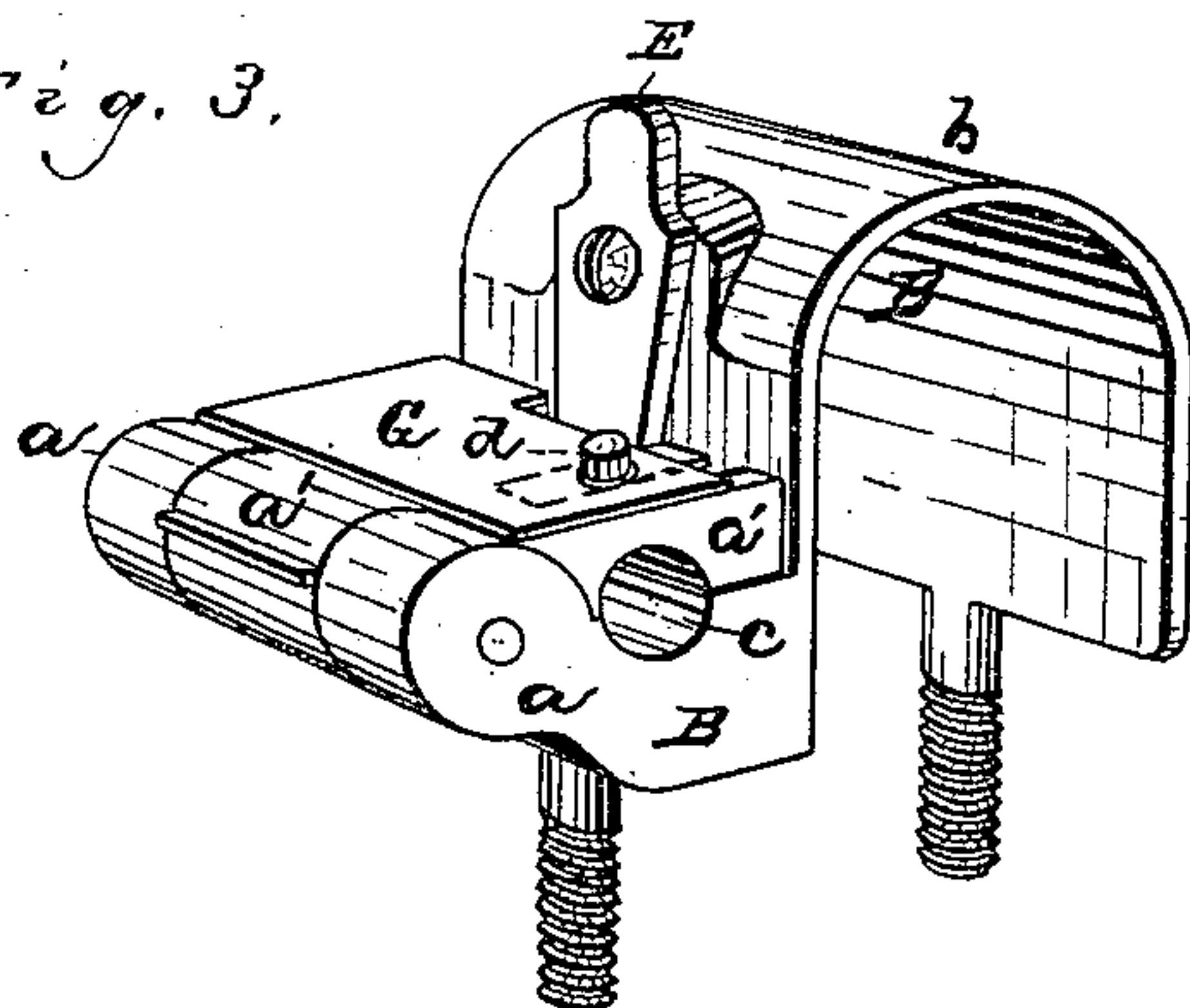


Fig. 3.



Witnesses,
Henry Trautpeter
V.B. Halpenny

Inventor,
Jacob Lauth-
per. F. F. Warner
his - Attorney.

UNITED STATES PATENT OFFICE.

JACOB LAUTH, OF MILWAUKEE, WISCONSIN.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 271,642, dated February 6, 1883.

Application filed August 24, 1882. (No model.)

To all whom it may concern:

Be it known that I, JACOB LAUTH, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Thill-Couplings, of which the following, in connection with the accompanying drawings, is a specification.

In the drawings, Figure 1 is a top or plan view of a thill-coupling embodying my invention. Fig. 2 is a section in the plane of the line *xx* of Fig. 1, and Fig. 3 is a perspective representation of the coupling provided with my improvements.

Like letters of reference indicate like parts.

15 A represents the axle.

B is the clip. This clip consists of two parts, *a a'*. The rear part of the part *a* is connected to and forms a part of the strap *b* of the clip, and which passes over the axle, as shown. 20 The forward ends of the parts *a* and *a'* are hinged to each other so that the part *a'* may be swung upward to receive the cross-bolt of the thill-iron, the parts *a* and *a'* being adapted, as shown at *c*, to receive the said bolt.

25 C is the thill iron or strap, and D is its bolt or coupling-pin.

E is a latch or catch pivoted to the clip. The upper face of the part *a'* has attached to it a spring, F, and *a'* is cut away or sunken 30 underneath the free end of the said spring, so as to permit that end to have some vertical play for movement, as indicated in Fig. 2.

d is a small pin or stud on the spring F.

G is a plate covering the spring F and forming the top of the part *a'*. The stud *d* passes 35 freely through the plate G. The plate G and the part *a'* are so cut away as to permit the lower end of the latch E to extend somewhat

below the spring F and plate G when the said latch stands vertically, as shown, and at which 40 time the said spring, when free or not depressed, locks the said latch in its vertical position, and the said latch in turn then locks the part *a'* in its closed position.

To apply the thills, I depress the spring F 45 by pressing down slightly upon stud *d*, which releases the latch E, which I then turn or swing into a horizontal position. The part *a'* may now be raised to allow the bolt D to be inserted in its place in the coupling. I then close 50 the part *a'* and return the latch E to its vertical position, when the thills will be locked or held firmly in the coupling. To remove the thills, I depress the stud *d*, swing the latch E laterally, and raise the part *a'*. By these means 55 the thills may be attached and removed with great facility, and they are also effectually prevented from being accidentally detached.

Having thus described my invention, what I claim as new, and desire to secure by Letters 60 Patent, is—

The combination, in a thill-coupling in which are the parts *a* and *a'*, hinged together at their forward ends, of the vertically-arranged pivoted latch or catch E, the vertically-yielding 65 spring F, and its stud *d*, for temporarily locking the said latch in its closed position above the part *a'*, and the top plate, G, having therein an opening through which the stud or pin *d* passes, all arranged and operating together 70 substantially as and for the purposes specified.

JACOB LAUTH.

Witnesses:

GEO. BINNEY,
LINDLEY COLLINS.