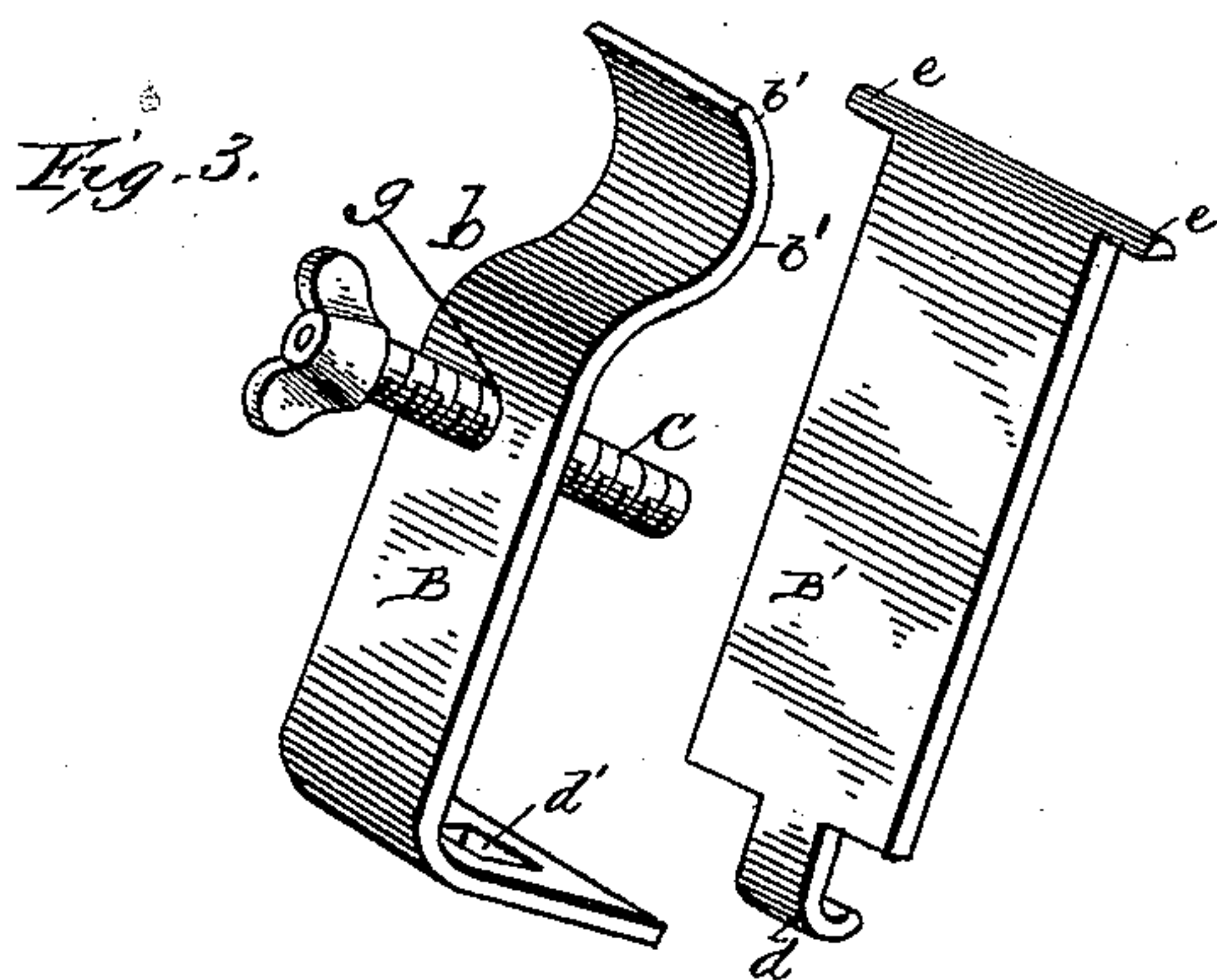
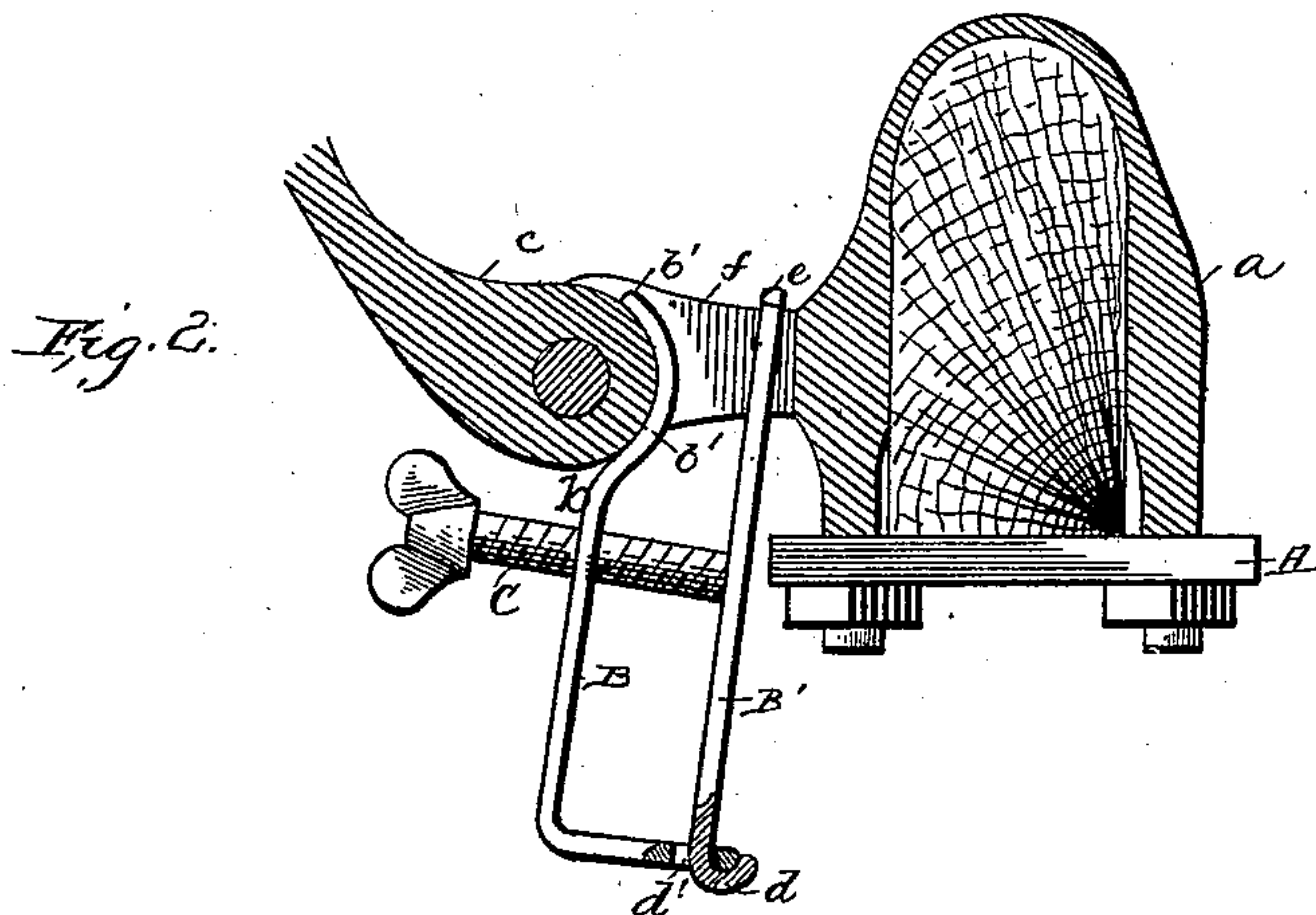
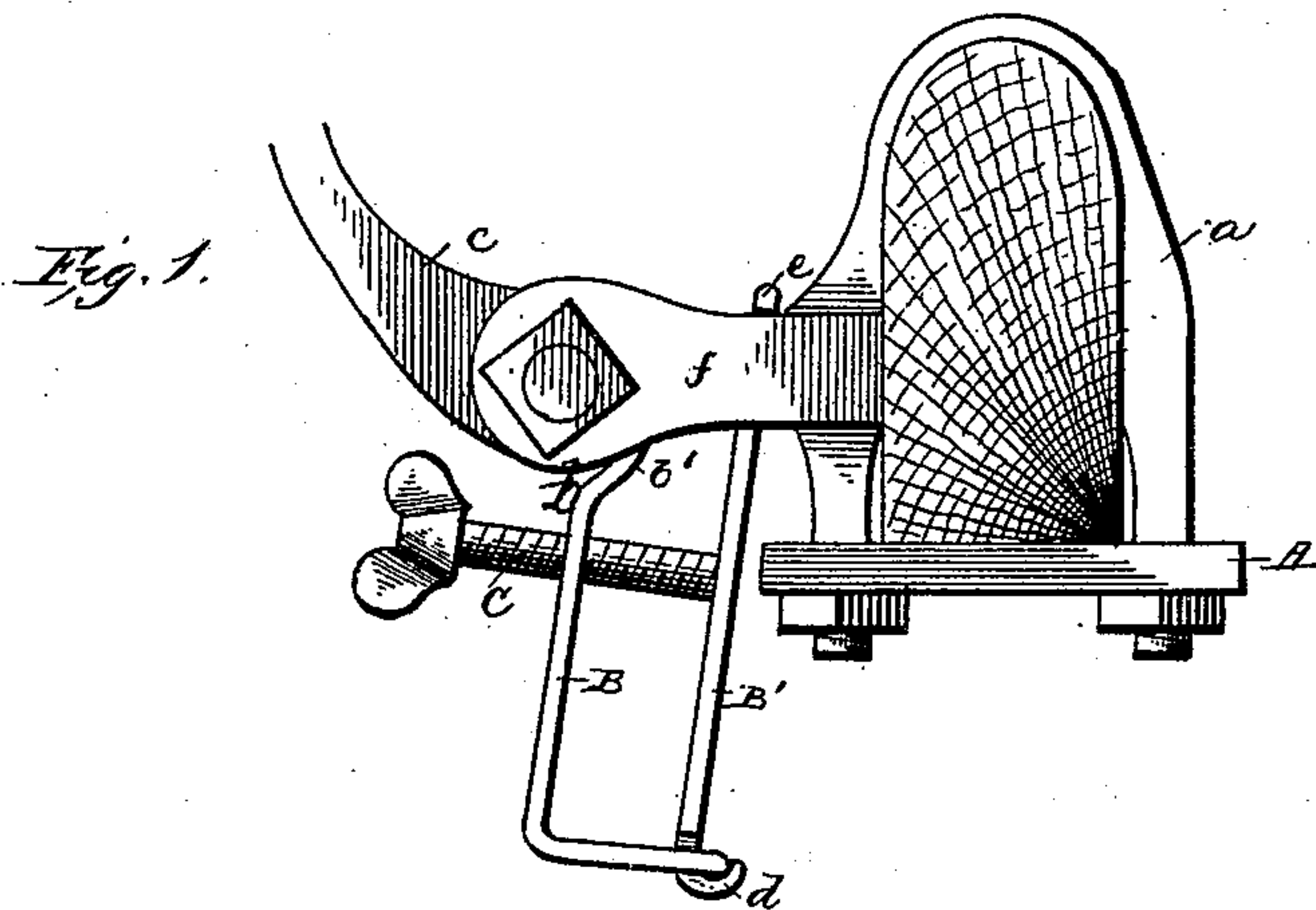


(No Model.)

B. FAHRNEY.
THILL COUPLING.

No. 405,086.

Patented June 11, 1889.



Witnesses:

John Enders
Paul W. Stevens

Inventor:
Benjamin Fahrney
By *[Signature]*
Attorneys

UNITED STATES PATENT OFFICE.

BENJAMIN FAHRNEY, OF HAGERSTOWN, MARYLAND.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 405,086, dated June 11, 1889.

Application filed March 6, 1889. Serial No. 302,180. (No model.)

To all whom it may concern:

Be it known that I, BENJAMIN FAHRNEY, a citizen of the United States of America, residing at Hagerstown, in the county of Washington and State of Maryland, have invented certain new and useful Improvements in Thill-Couplings, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain improvements in thill-couplings, having for its object to furnish an anti-rattling thill-coupling, and to readily effect the adjustment of the pressure or tension of the spring; and it consists of the novel combination of parts, as will be fully apparent from the following description and accompanying illustration, in which—

Figure 1 is a side view of my improved thill-coupling. Fig. 2 is a longitudinal section thereof, and Fig. 3 is a detached perspective view of the spring and its adjusting contrivance.

In the embodiment of my invention I apply to the usual form of thill-irons A and the thill-connecting clip *a* a spring or buffer contrivance. This contrivance or buffer consists of a proximate U-shaped spring-metal plate B and a plain or straight plate B'. The spring-metal plate or spring proper has its upper end also curved, as at *b*, inward, and thence extended upward and curved in a coincident plane, as at *b'*, to enable it to embrace and bear against the rear convex surface of the thill-bolt-receiving eye *c*. This is effected by first disposing in place the contrivance B B' so as to receive into the curvature *b'* the thill-bolt-receiving eye *c*, and then passing the bolt in place in the clip *a* and the eye *c*. The contrivance B B' will now be in a suspended position, as required, between the thill-eye and axle-clip. The straight plate B' is hooked, as

at *d*, into an aperture or slot *d'* in the lower horizontal portion or base of the spring B, and has at its upper end or edge lateral projections or arms *e e*, which rest upon the upper edges of the side portions *f f* of the thill-iron A. Through a screw-threaded opening *g* in the spring B works a thumb or tension-adjusting screw C, its inner end bearing against the plate B', and whereby, by suitably turning the screw, the required tension is imparted to the spring, the spring B being pressed against the thill-eye, and the plate B' being pressed against the front side of the thill-iron A. It will also be seen that wear is compensated by my invention, while the tension of the spring is maintained until the contrivance has entirely worn out.

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

The thill-coupling having the spring or buffer contrivance, consisting of the spring-metal plate having its upper end coincidently curved with the thill-bolt-receiving eye, and its lower horizontal portion provided with an aperture or slot, the straight plate having its upper end provided at the corner edges with projections or arms resting upon the upper edges of the side portions of the thill-iron, said straight plate having its lower end hooked into the slot or aperture of said horizontal portion of the spring-metal plate and the thumb or tension screw working in the spring-metal plate and bearing against the straight plate, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN FAHRNEY.

Witnesses:

GEO. B. OSWALD,
GEO. F. BURKHART.