

(No Model.)

Q. M. YOUNGS.

TOE WEIGHT.

No. 303,098.

Patented Aug. 5, 1884.

Fig. 1.

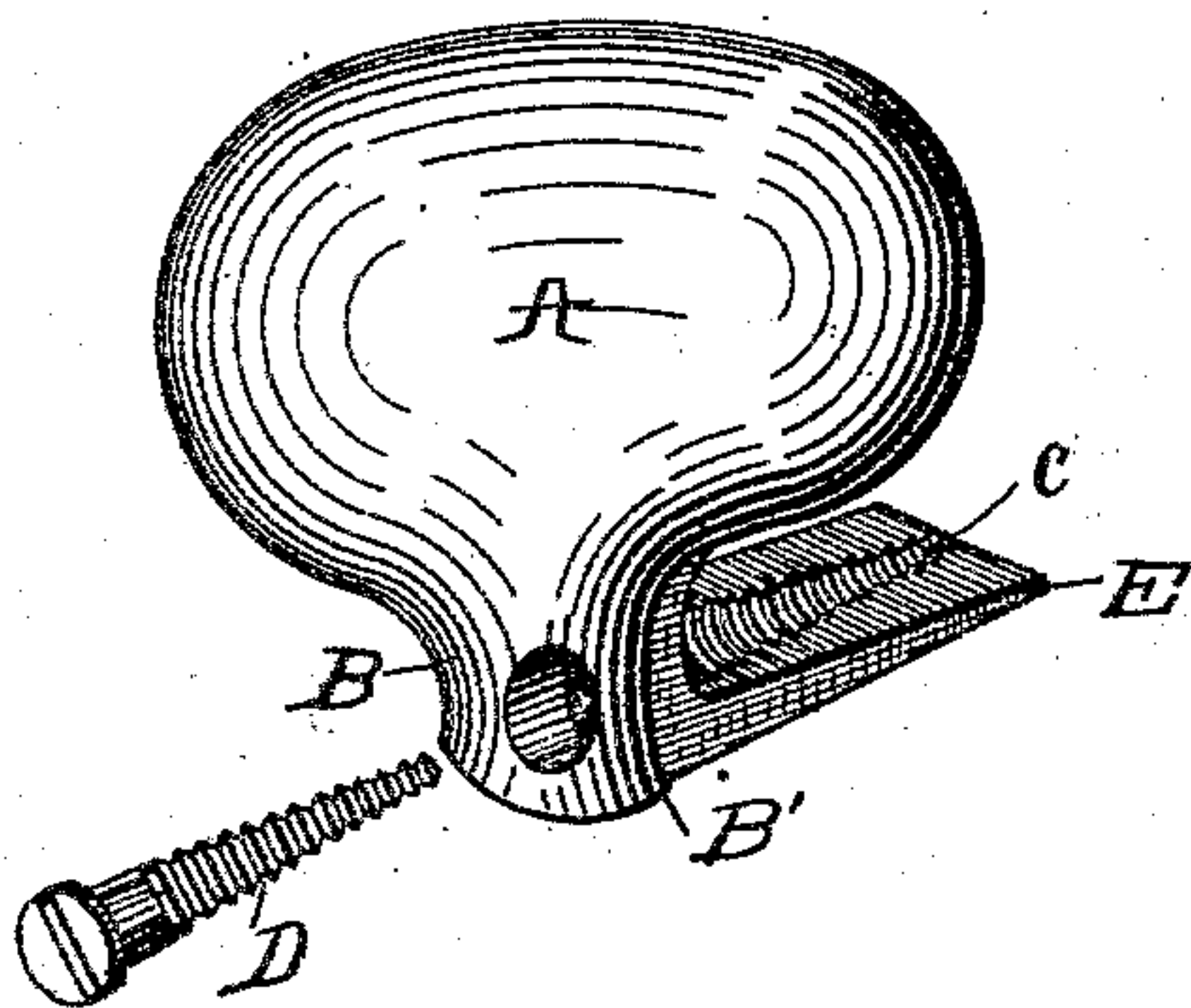


Fig. 2.

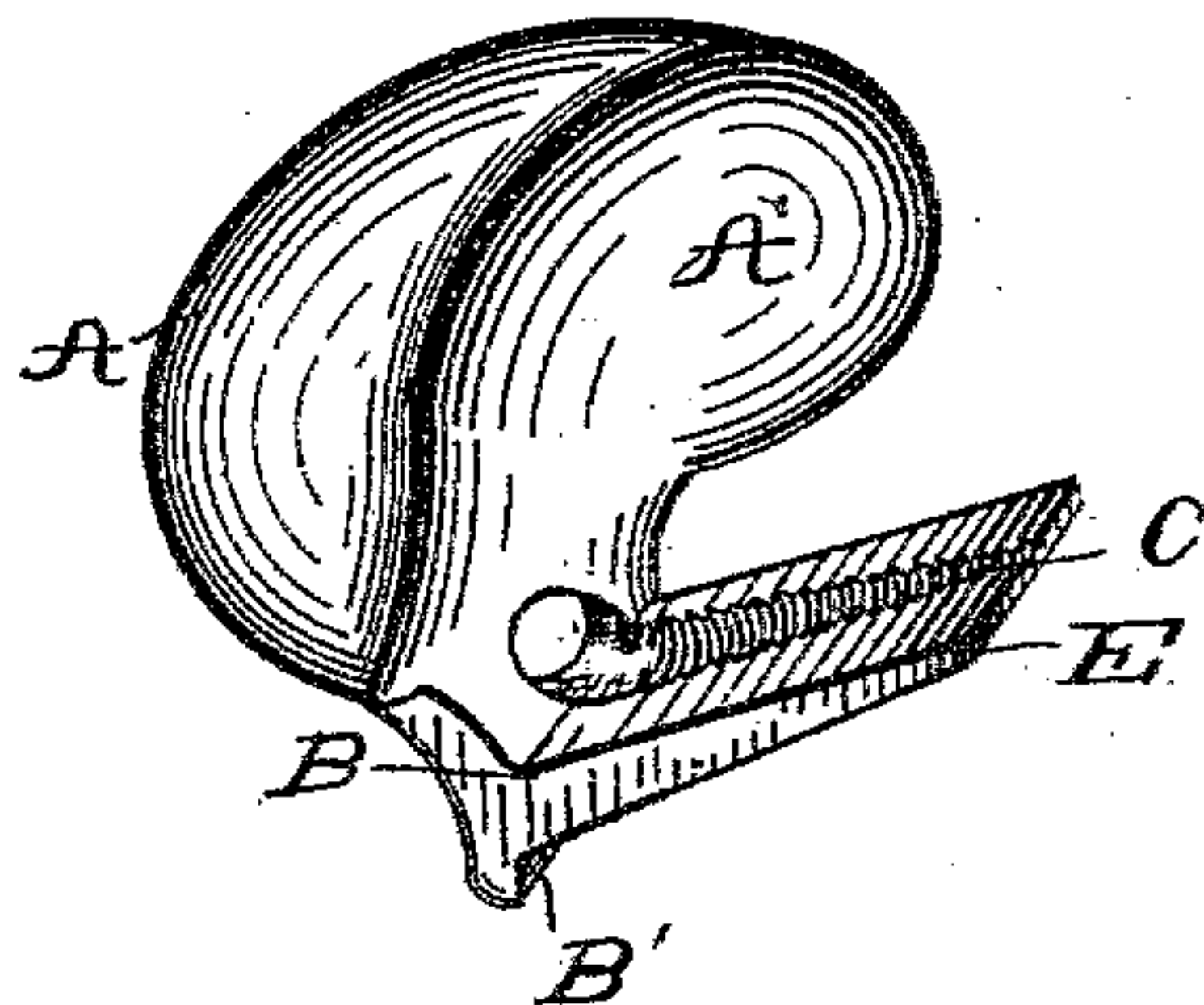


Fig. 3.

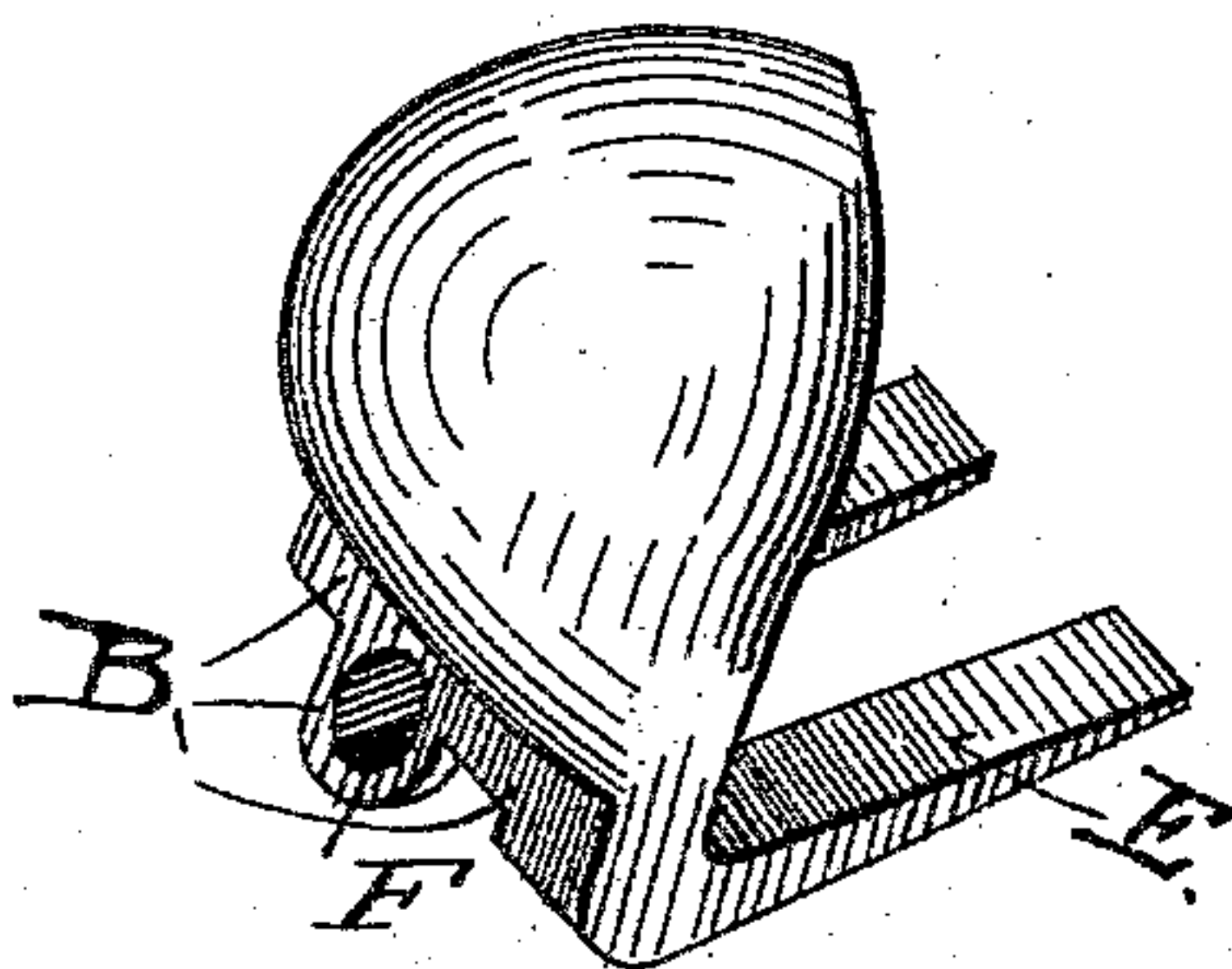


Fig. 4.

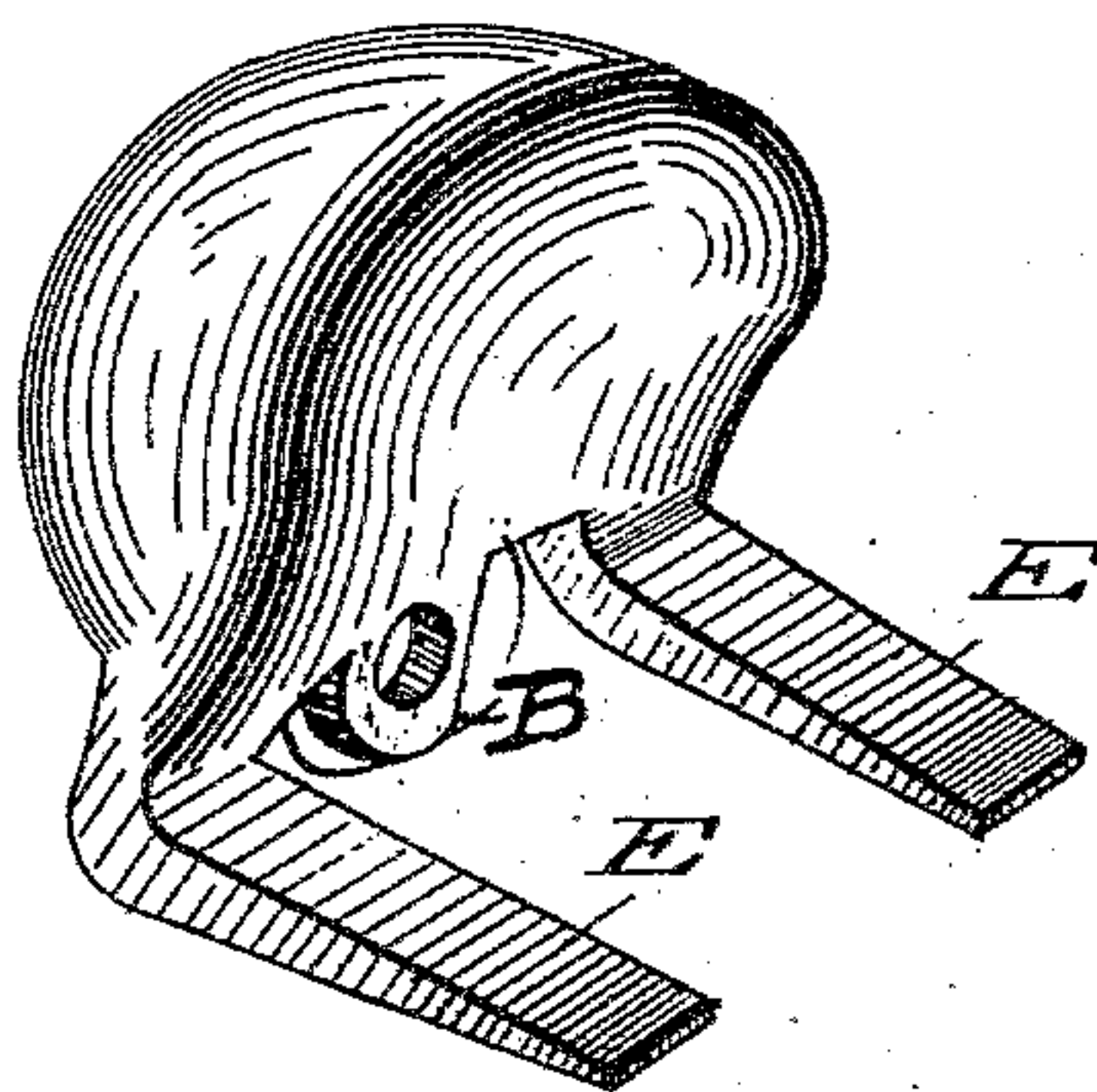
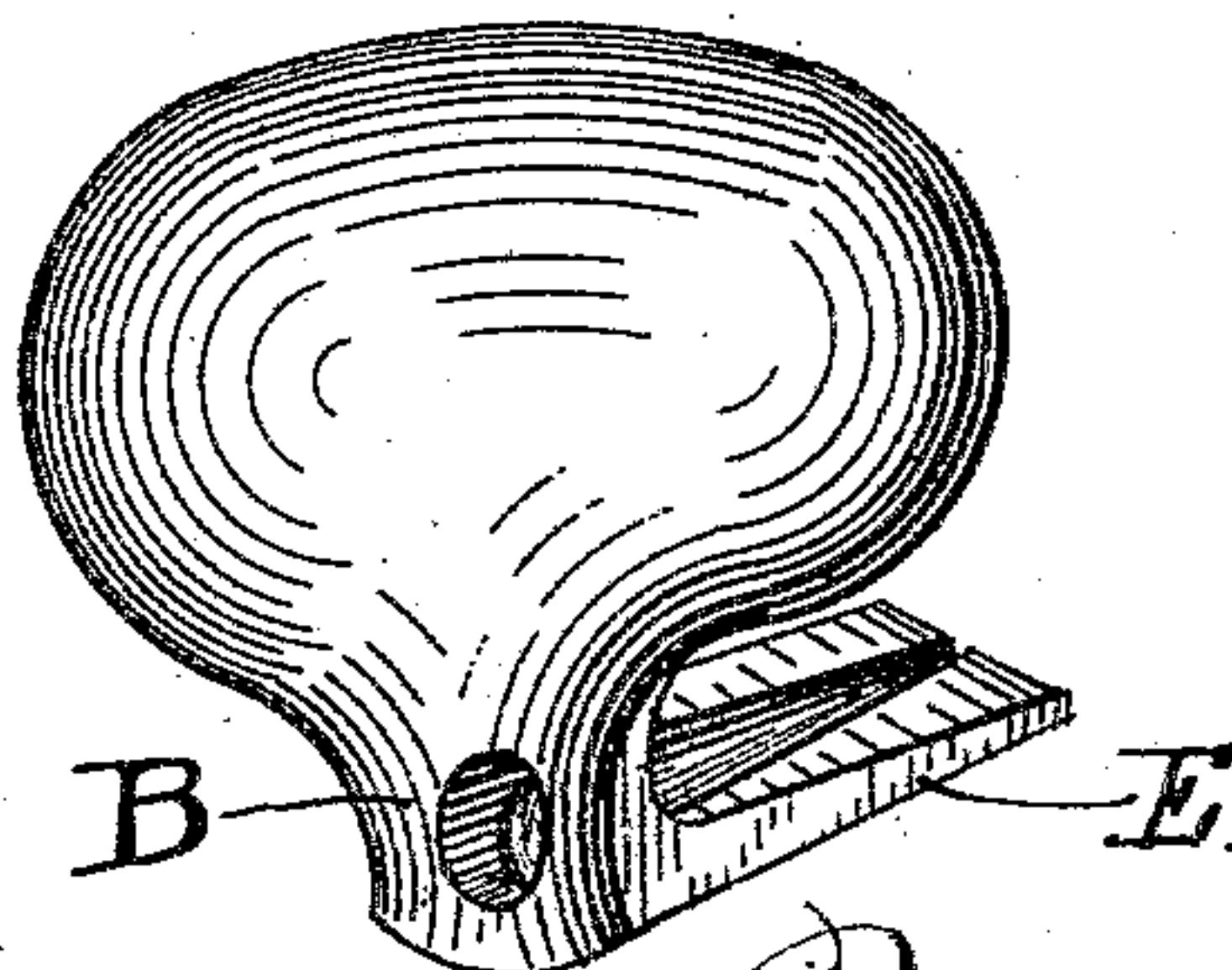


Fig. 5.



WITNESSES

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TOE-WEIGHT.

SPECIFICATION forming part of Letters Patent No. 303,098, dated August 5, 1884.

Application filed April 23, 1884. (No model.)

To all whom it may concern:

Be it known that I, Q. M. YOUNGS, a citizen of the United States of America, residing at Utica, in the county of Oneida and State of New York, have invented certain new and useful Improvements in Toe-Weights, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention pertains to an improvement in toe-weights; and it consists in a toe-weight having a tongue and threaded spur cast integral therewith, the tongue being provided with an orifice for reception of a screw, and in the novel construction, combination, and arrangement of the parts, substantially as hereinafter more fully shown and described.

In the accompanying drawings, Figures 1 and 2 are views in perspective of my invention. Figs. 3 and 4 are perspectives of a modification thereof, and Fig. 5 is also a modification.

The object of my invention is to provide a toe-weight which may be readily secured to the horse's hoof in such manner that the shoe, with the weight, on its descent in trotting may impinge the ground solidly, as if the shoe and the weight were cast integral, and thus prevent any such jarring strain being exerted upon the horse's hoof at the moment when the shoe strikes the earth as happens when the weights are secured to the horses by straps or screws, and frequently results in cracking and breaking the hoof. In the accomplishment of this purpose I construct the weight A slightly concaved on its inner face, and inclined to conform to the contour of the horse's hoof, and project vertically downward from the weight A the tongue B, wherein is provided the screw-orifice C for reception of the screw D. The tongue B is provided with the slight shoulder B', which abuts against the front edge of the horseshoe at its center, and has cast integral therewith the spur E, which is provided with a female screw-threaded groove, C', adapted to the male screw D. The spur E is inserted into a coincident recess formed on the bottom of the hoof, and in such manner as to be flush with the inner side of the

horseshoe, in order that the toe-weight may be as if integral with the horseshoe when it strikes the earth. The female screw-threaded groove C' is designed, conjointly with a coincident screw-threaded groove or recess, (formed in the bottom of the hoof by ordinary mechanical expedient,) to furnish a suitable female-screw orifice for insertion of the screw D, which thus holds the toe-weight rigidly against the hoof.

In the construction of my toe-weight I do not confine myself to a single spur, as it is obvious that two may be employed, as shown in Figs. 3 and 4; nor do I deem it radically essential that they be screw-threaded, as aforesaid, as it is an obvious modification to insert the screw through the eye F and into the hoof without the aid of screw-thread on the spur, although it would be requisite in such case to slightly elevate the screw-orifice in a line obliquely or vertically above its present position, as shown in Fig. 5.

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

1. A toe-weight having the orificed tongue B and screw-threaded spur E, adapted to the coincident screw D, substantially as shown, and for the purpose described.

2. A toe-weight consisting of the weight A, orificed tongue B, and threaded spur E, substantially as shown, and for the purpose described.

3. A toe-weight having the tongue B, screw-orifice C, and spur E, constructed and arranged to prevent lateral strain upon the hoof, substantially as shown and described.

4. A toe-weight having the tongue B, screw-orifice C, and spur E, constructed and arranged to prevent the spur E from coming out of or loosening from the hoof, substantially as shown and described.

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

QUINTEN M. YOUNGS.

Witnesses:

JAS. A. CHAMBERS,
WM. B. NORTHERUP.