

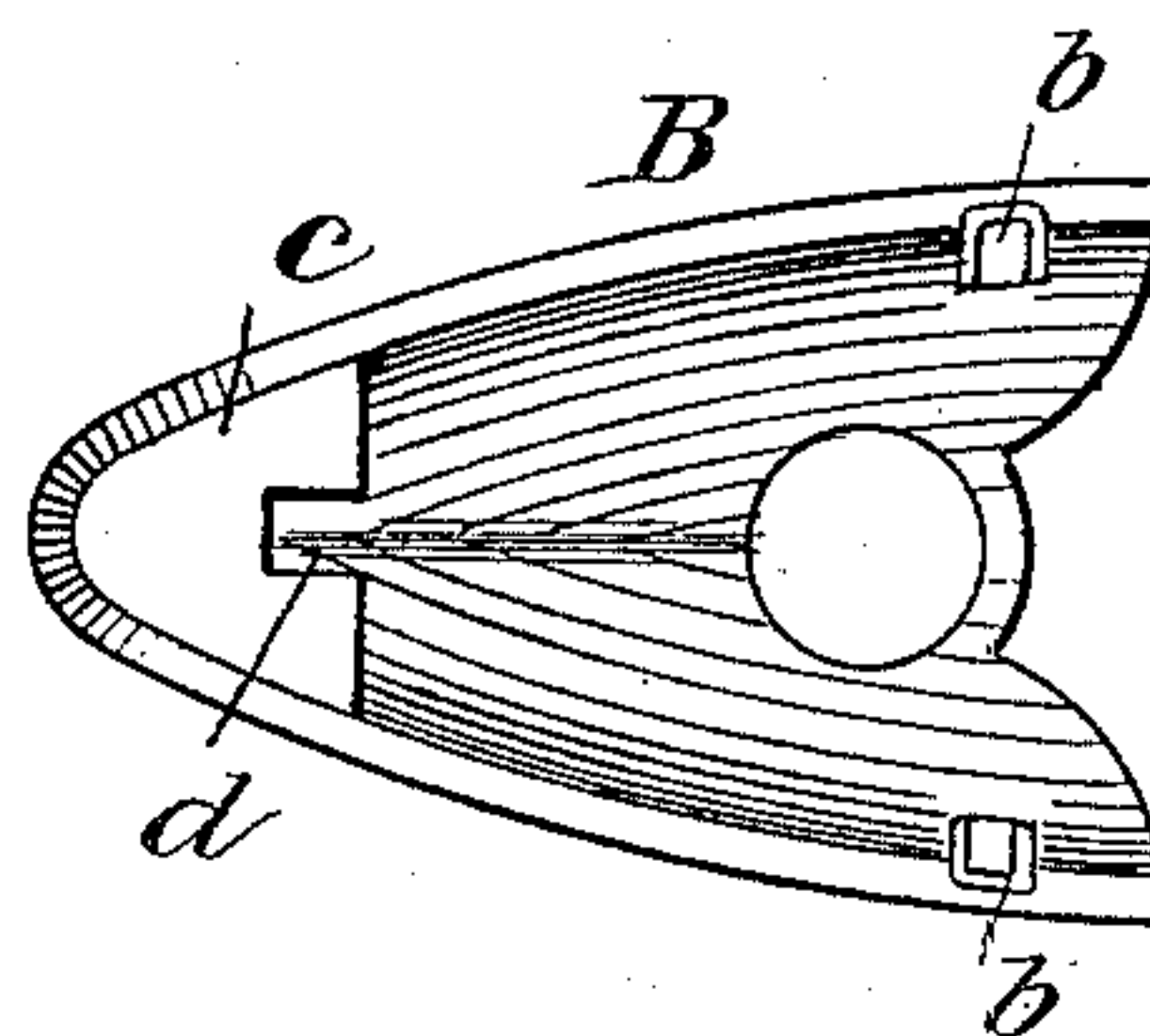
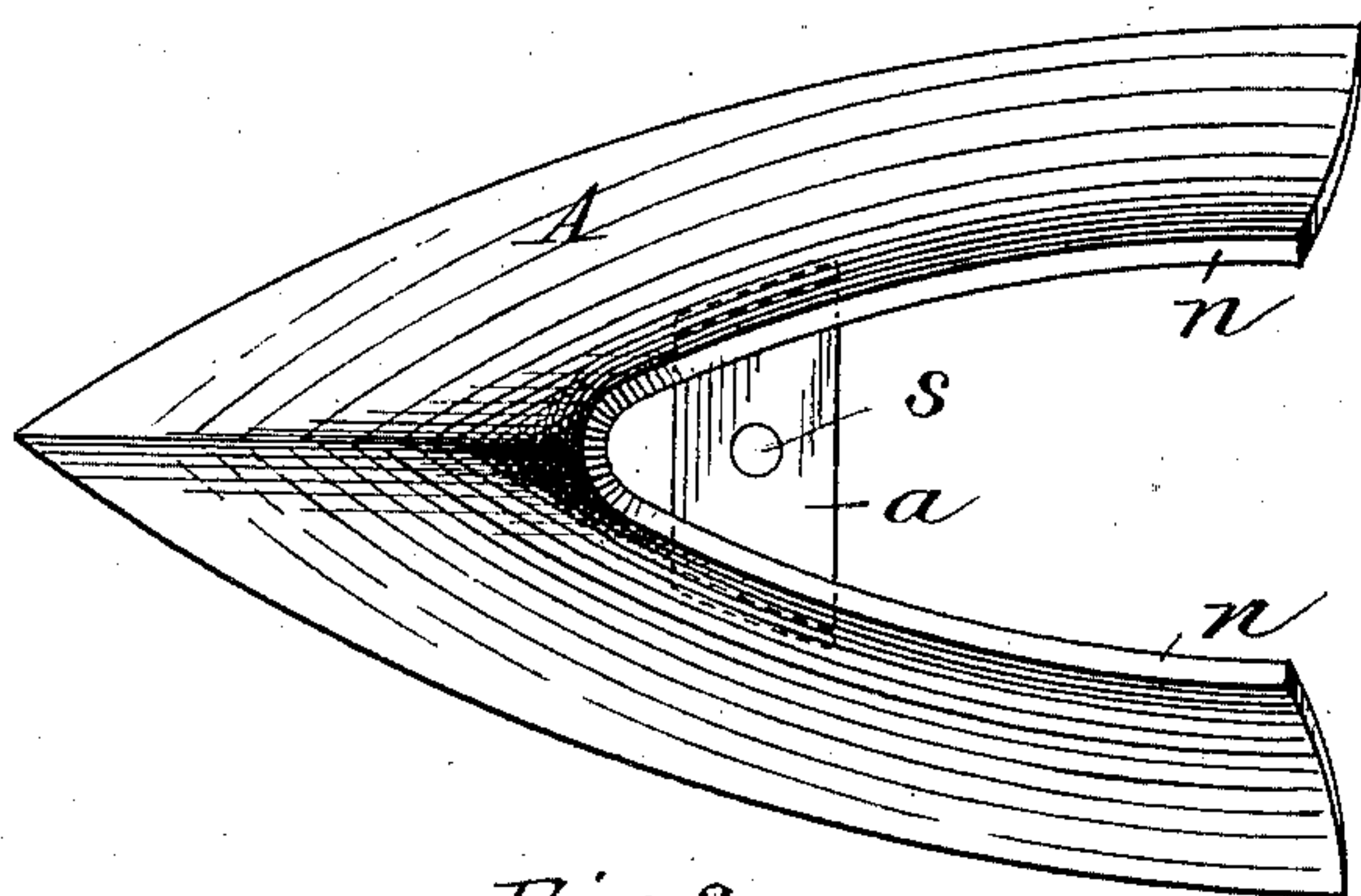
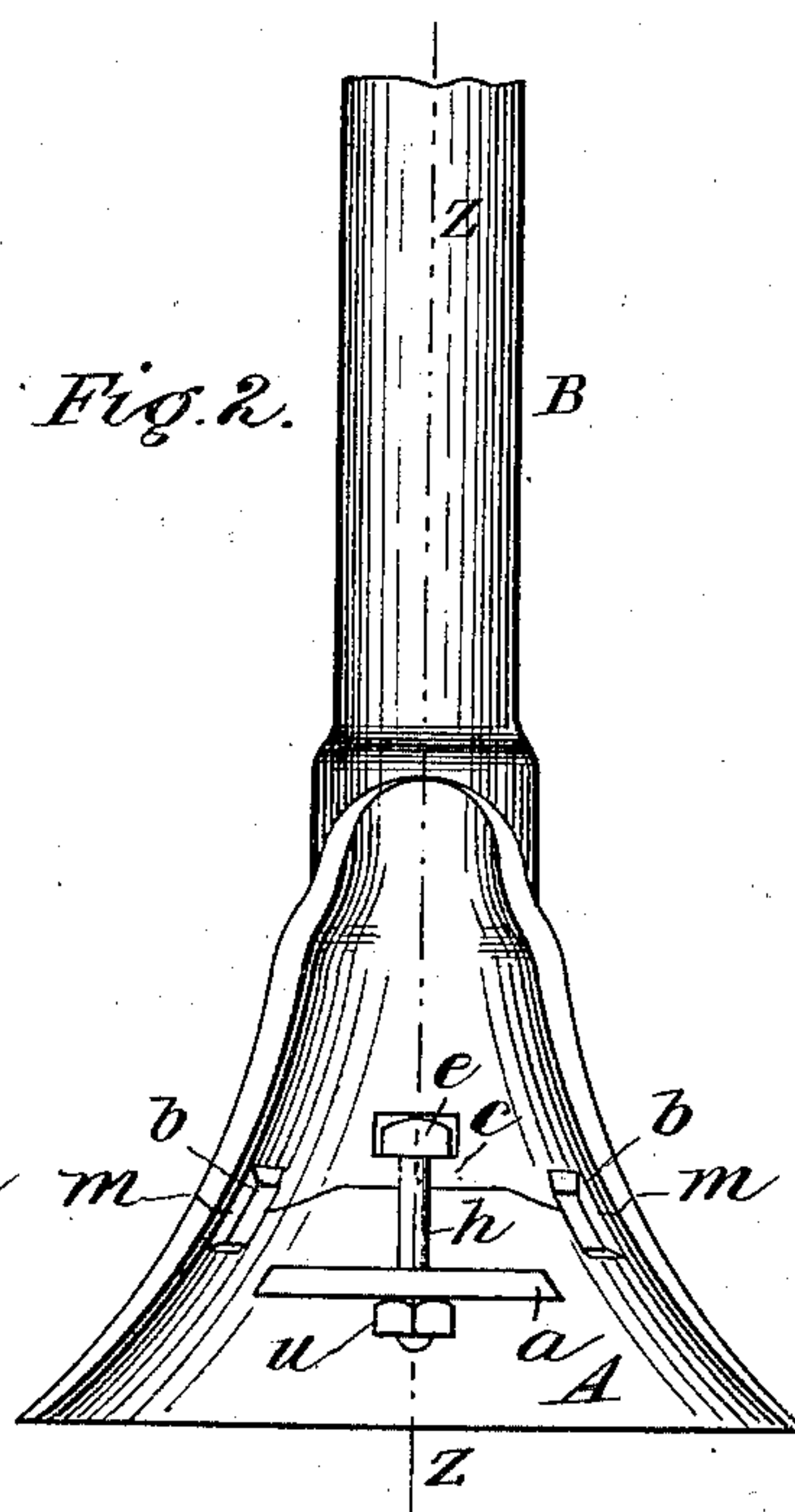
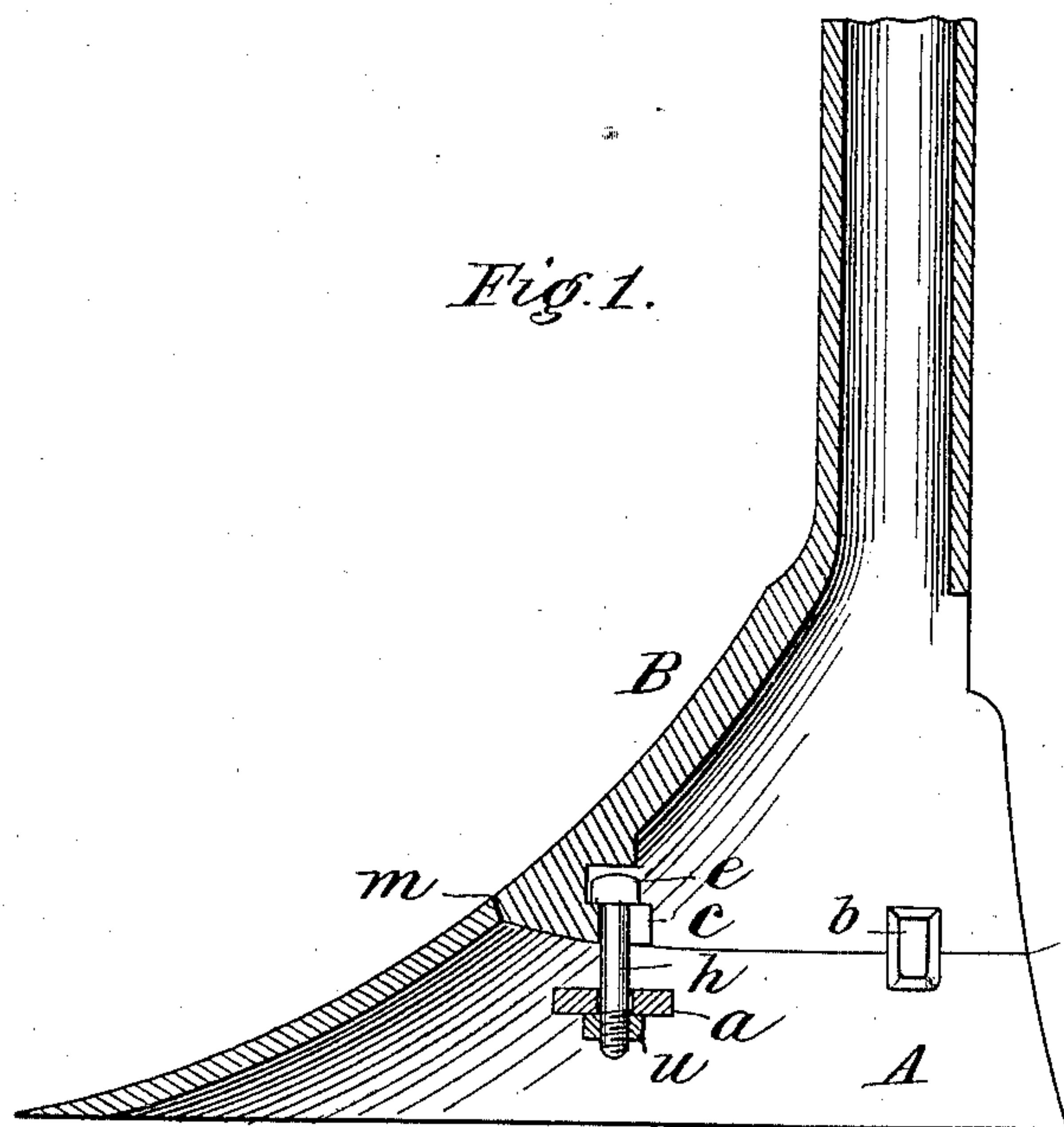
(No Model.)

G. BLECHSCHMIDT.

IMPLEMENT FOR STIRRING THE SOIL.

No. 368,644.

Patented Aug. 23, 1887.



Witnesses:  
Sam<sup>l</sup>. B. Dover.  
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Inventor.  
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By John Lane  
Atty.



# UNITED STATES PATENT OFFICE.

GUSTAV BLECHSCHMIDT, OF PERU, ILLINOIS, ASSIGNOR TO THE PERU  
PLOW AND WHEEL COMPANY, OF SAME PLACE.

## IMPLEMENT FOR STIRRING THE SOIL.

SPECIFICATION forming part of Letters Patent No. 368,644, dated August 23, 1887.

Application filed May 2, 1887. Serial No. 236,822. (No model.)

*To all whom it may concern:*

Be it known that I, GUSTAV BLECHSCHMIDT, late a subject of the Emperor of Germany, three years a resident of the United States, and nine months since having declared intention of becoming a citizen of the United States, residing at Peru, in the county of La Salle and State of Illinois, have invented a new and useful Improvement in Implements for Stirring the Soil, of which the following is a specification.

My invention relates to implements for stirring the soil in which a steel or metal blade or share is attached to a cast-metal shank or standard; and the object is to cheapen and simplify the construction and make a more substantial connection of the blade or share to the standard, and less liable to part at the joining than heretofore. Heretofore such blades have been attached to the standard by means of lugs on the standard, with bolts through the lugs and blade, and any wear of the parts would make a loose and open joint between the blade and standard which the bolt could not tighten, objections which my improvement overcomes.

The invention consists, first, in an improved construction of the standard; second, in the peculiar construction of the share or blade; third, in connecting the blade to the standard by means of a bolt seated in a recess in the standard and a clamping-bar having its ends bearing upon the under side of the blade or share, and also consists in certain other construction, arrangement, and adaptation of parts, as hereinafter set forth, and specially pointed out in the claims.

In referring to the drawings, like letters refer to like parts in all the figures, in which—

Figure 1 is a cross-section side-elevation view of a plow, cultivator, or subsoiling attachment, taken on the dotted line *z* of Fig. 2, showing the share A attached to the standard B. Fig. 2 is a rear view of same, showing how the bolt *h*, seated in the standard, and bar *a*, bearing under the share, connect the share to the standard. Fig. 3 is a top or plan view of the share A, showing its construction, and the bar *a* shown in position with its ends bearing on the share. Fig. 4 is a bottom view of the standard B, showing its construction, the recess *d*, and the stops or lugs *b*.

The plow shown in the drawings is a subsoiling drill-tooth attachment for use with listing-plows. My improvements may be used in attaching the share to standards in ordinary plows and cultivators without departing from the purview of my invention and claims.

A is the share or blade, preferably constructed of steel, with its top edge, *n*, fitted to seat the standard thereon. The said top edge is made highest on the outer or faceside. The inner or under side is made lower, so that said edge is inclined, by which the standard is embraced on both sides by the inclined top edge of the share, as shown at *m* in Figs. 1 and 2, and by which the standard is more firmly seated on the share. It will be observed that the said share having the beveled or inclined top edge is, without bolt-holes, fully adapted for being connected to the standard, as shown.

B is the standard, preferably of cast metal, having its bottom end seated on the top edge of the share A. The said bottom end is inclined to fit the bevel or inclined top edge of said share, as shown. *b* is a steadying stop or lug made rigid or solid on the back or inside of the standard and projecting under the share to stop and hold the share in its position. More or less of said stops may be used. I preferably use two, as shown, one upon each side of the inside or back of the standard, as shown. The said standard is provided with the recess *d*, formed on the bottom end of said standard, to receive and seat the bolt *h*, having an ordinary head, as shown. *a* is a clamping-bar provided with a central perforation, *s*, and having its ends of a proper shape to fit and bear against the under side of the share, as shown.

In operation the standard is first seated on the share; the bolt is then seated in the recess, and the bar placed in position on the bolt, when the nut *u* is tightened, drawing the bar rigid against the share, holding it firmly on the standard, and in any loosening of the share the said lugs or stops prevent it from falling away, and a further tightening of the nut will again make the share as rigid and close-fitting on the standard as at first.

Having thus set forth my invention, I claim—

1. The share without bolt-holes, in combination with the standard provided with the re-

cess *d*, said share embracing both sides of the standard and secured thereto by means of the bolt *h*, seated in said recess, and the bar *a*, bearing against the under side of the share, substantially as and for the purpose set forth.

2. The share A, in combination with the standard provided with the recess and the steadying-stops, said share embracing the sides of the standard, and with the bolt seated in said recess to hold the share in its position, substantially as and for the purpose set forth.

3. The standard having its bottom end inclined, as and for the purpose shown, and provided with the stops *b* and the recess *d*, substantially as and for the purpose set forth.

4. The combination of the share having the inclined top edge and the standard provided with the recess with the bolt and clamping-bar, substantially as and for the purpose shown.

5. The combination of the share A, standard B, provided with the recess *d* and steadying-stops *b*, with the bolt *h* and bar *a*, substantially as and for the purpose set forth.

GUSTAV BLECHSCHMIDT.

Witnesses:

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