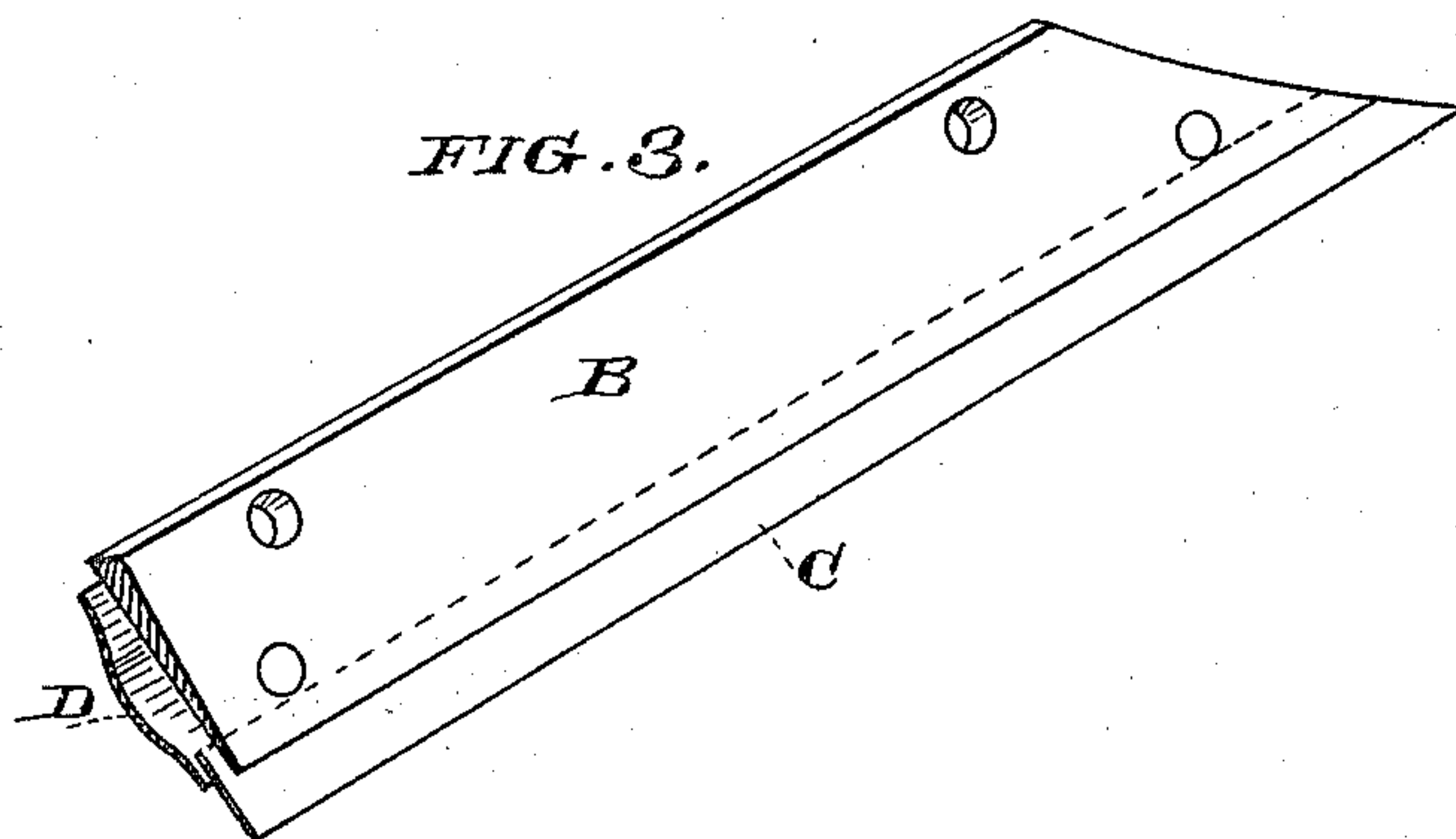
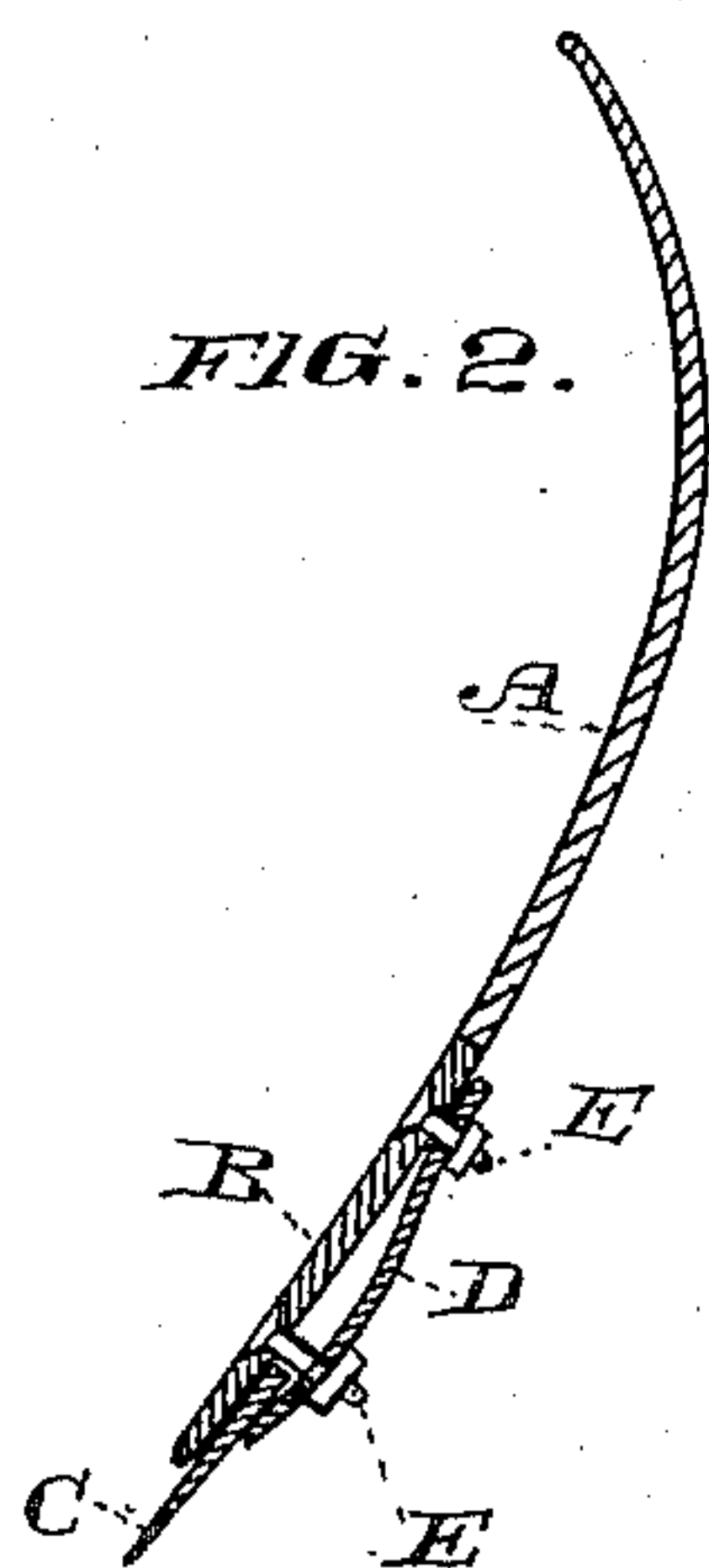
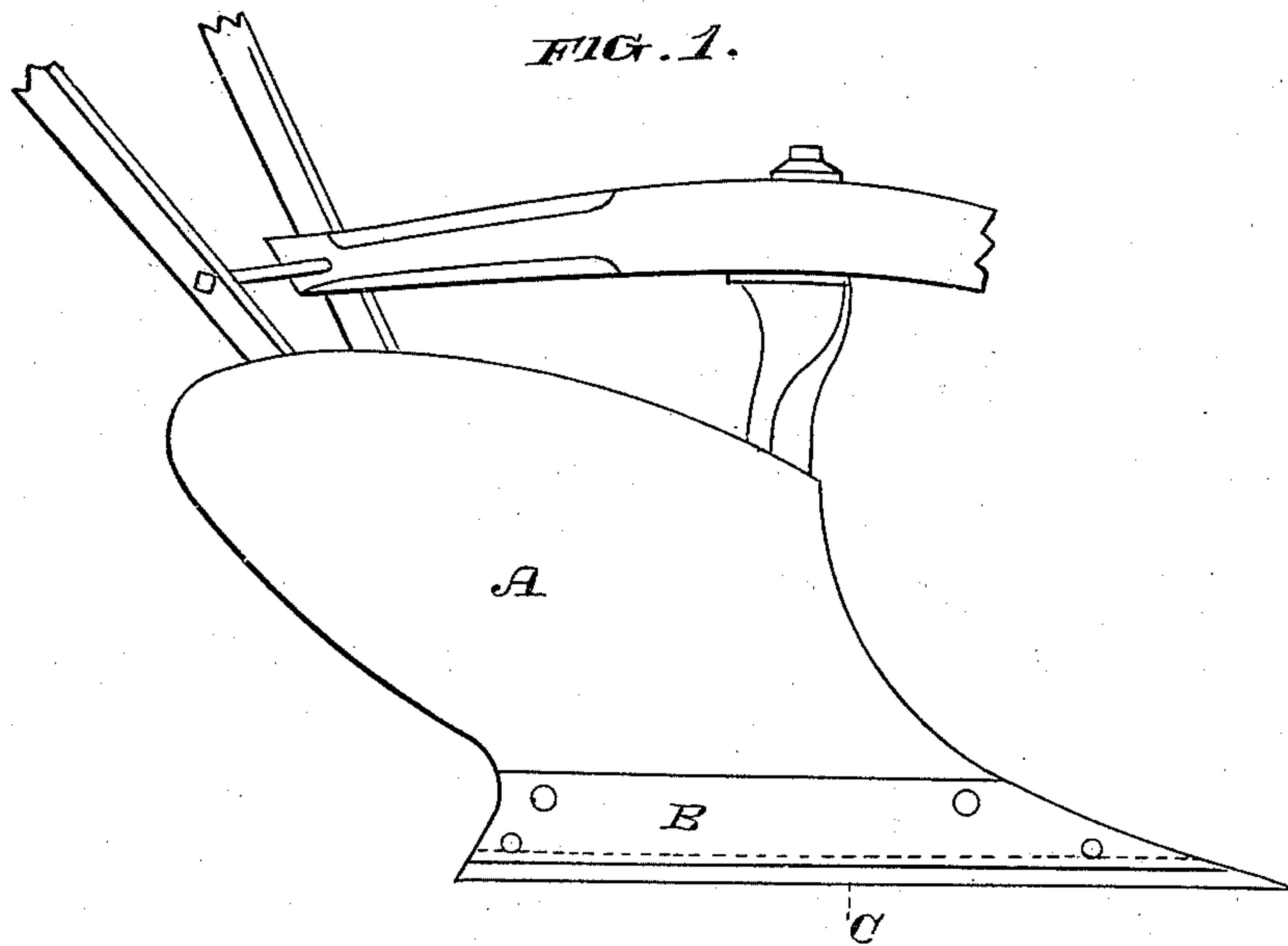


(No Model.)

S. HAMILTON.
PLOWSHARE ATTACHMENT.

No. 311,980.

Patented Feb. 10, 1885.



Witnesses,
Geo. H. Strong.
J. T. House.

Inventor,
Sam'l Hamilton
By
Dewey & Co.
Attorneys

UNITED STATES PATENT OFFICE.

SAMUEL HAMILTON, OF SALINAS, CALIFORNIA.

PLOWSHARE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 311,980, dated February 10, 1885.

Application filed September 18, 1884. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HAMILTON, of Salinas, in the county of Monterey and State of California, have invented an Improvement in Plowshare Attachments; and I hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to an attachment for plowshares and a means for securing the same.

10 It consists of a thin strip or ribbon of steel, which extends along the edge of the share, projecting beyond it and the point, so as to receive the wear. This strip is secured between the edge of the share and a supplemental plate which is bolted or secured above, 15 so as to act as a clamp and hold it in place.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a view of a plow, showing the 20 mold-board, the share, and the attachment, with means for securing it. Fig. 2 is a transverse section across the share, the attached strip, and the holding-plate. Fig. 3 is a view of the share, metal strip, and holder.

25 In the construction of plows there is a mold-board by which the earth is turned, and the share which consists of a plate extending along the lower edge of the mold-board, and which has a cutting-edge and point formed upon it 30 for the purpose of entering the soil.

When the plow is constructed, the share is made of the proper width and proportion with reference to the mold-board, so as to give the lower part the most favorable form for enter- 35 ing and turning the soil.

With use the edge of the share is rapidly worn away, and it must be sharpened, so that the shape or lines of the plow are soon so changed that the work is not as well done as 40 when the plow was new. For this reason plowshares are removed and new ones substituted before the old ones are half worn out, besides which considerable time is lost from frequent stopping to sharpen them. In my 45 invention I employ a thin steel ribbon which projects beyond the edge of the share, so as to form the cutting-edge and point, and which

is so attached to the share that it may be easily removed or replaced at any time.

A is the mold-board of the plow, B is the 50 share, and C is the steel ribbon or strip, which projects beyond the edge of the share and acts as the cutter, thus preserving the edge of the share from wear. These ribbons are preferably made by rolling steel into thin strips of 55 any suitable length, and they may be cut off into lengths suitable for the plow from time to time, as required. In order to secure these strips to the edge of the mold-board, so that they may be easily removed when worn out, 60 I employ a supplemental plate, D, the edge of which extends down nearly or quite to the edge of the share. This plate is preferably slightly arched, so as to be concave below, the upper and lower edges thus coming closely in 65 contact with the share.

Through the share and also through its plate D are made holes for the introduction of bolts E, the heads of which may be counter- 70 sunk in the upper surface of the share, so as to be flush with it and present no obstruction to its movement over or through the ground. Below the plate D bolts extend far enough to receive the nuts, being threaded for that pur- 75 pose. When the nuts are turned back so as to loosen the plate D and allow its edge to be lifted up from that of the share, the edge of the ribbon may be inserted between the two to its proper position. The nuts are then 80 again screwed down until the lower edge of the plate clamps the ribbon firmly between itself and the share, its concave shape assisting in making it hold firmly. The edges of these steel ribbons are sufficiently thin, so that they need no sharpening, and are ready 85 to work at once, and they may be used until they are worn out close to the edge of the share, when by turning the nuts they may be removed and others introduced to take their place. By this means I am enabled to pre- 90 serve the original form of the plow constantly without any wear or change of shape which would be detrimental to its action. The share is saved, and the amount of steel which is

thrown away in the worn-out ribbons is comparatively small.

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

5 In a plow, the mold-board A and share B, in combination with the concave supplemental plate D, the strip or ribbon C, interposed between the plate and share, and the bolts E, for
10 securing the upper end of the plate, and also

for clamping the strip so that it may be readily removed without displacing the plate, as herein set forth.

In witness whereof I have hereunto set my hand.

SAMUEL HAMILTON.

Witnesses:

G. W. CONGDON,
JAMES McDUGALL.