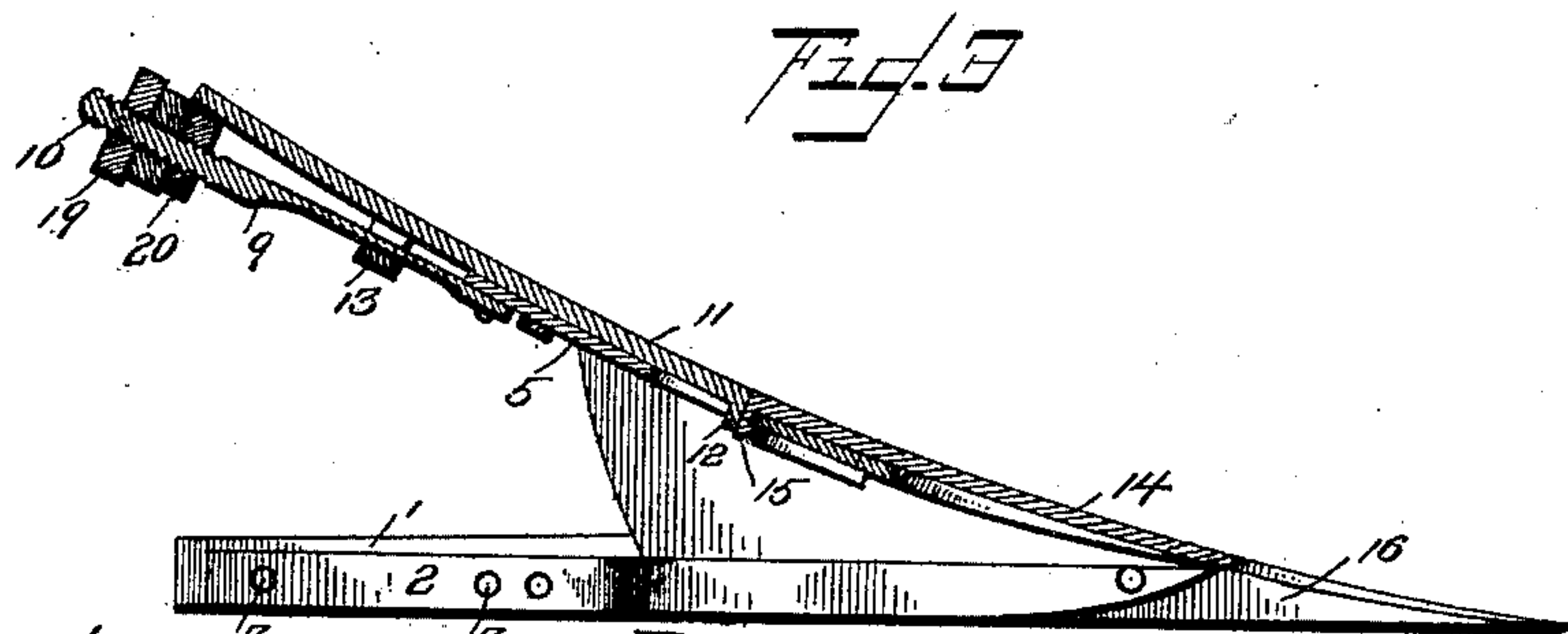
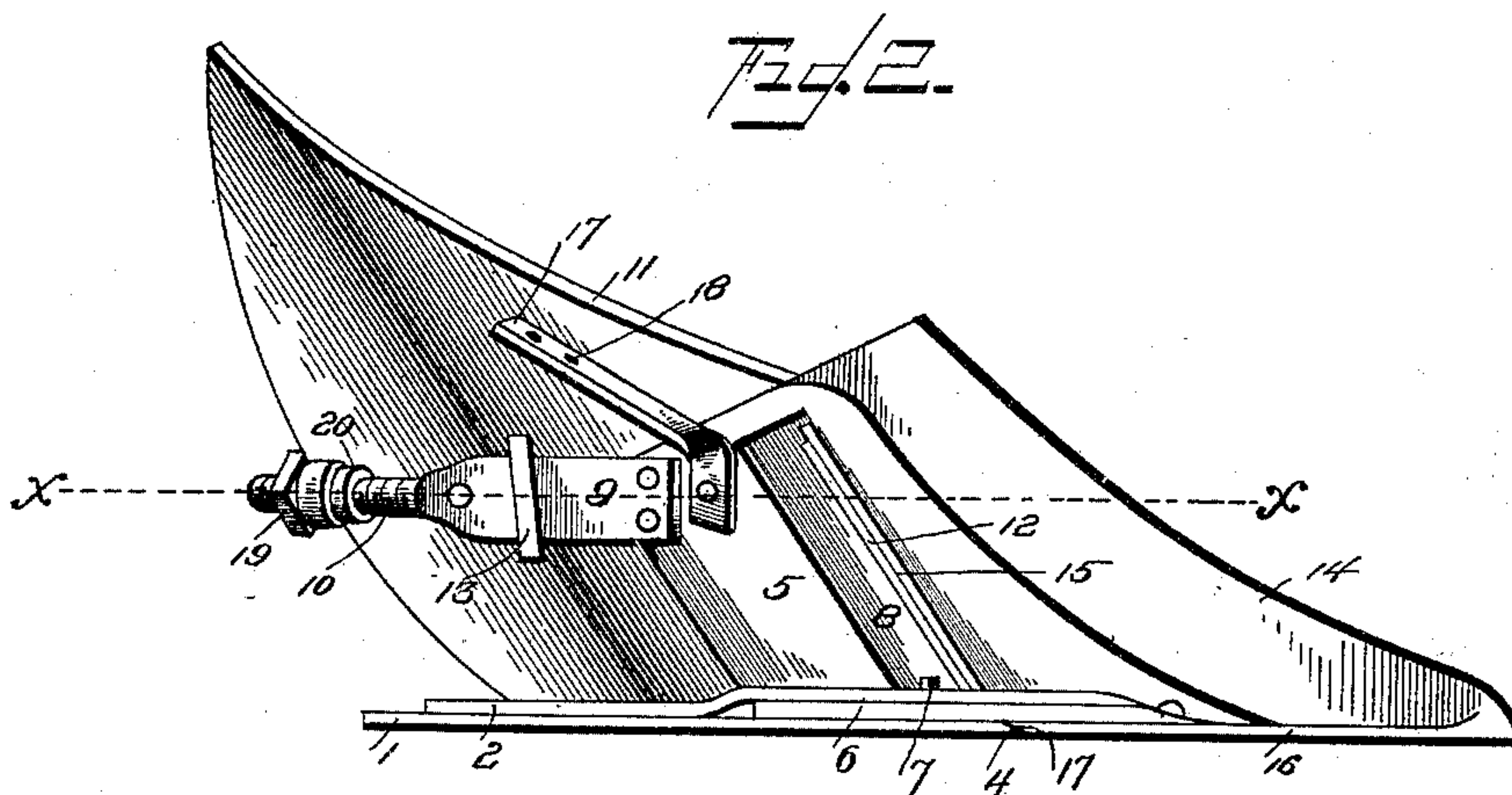
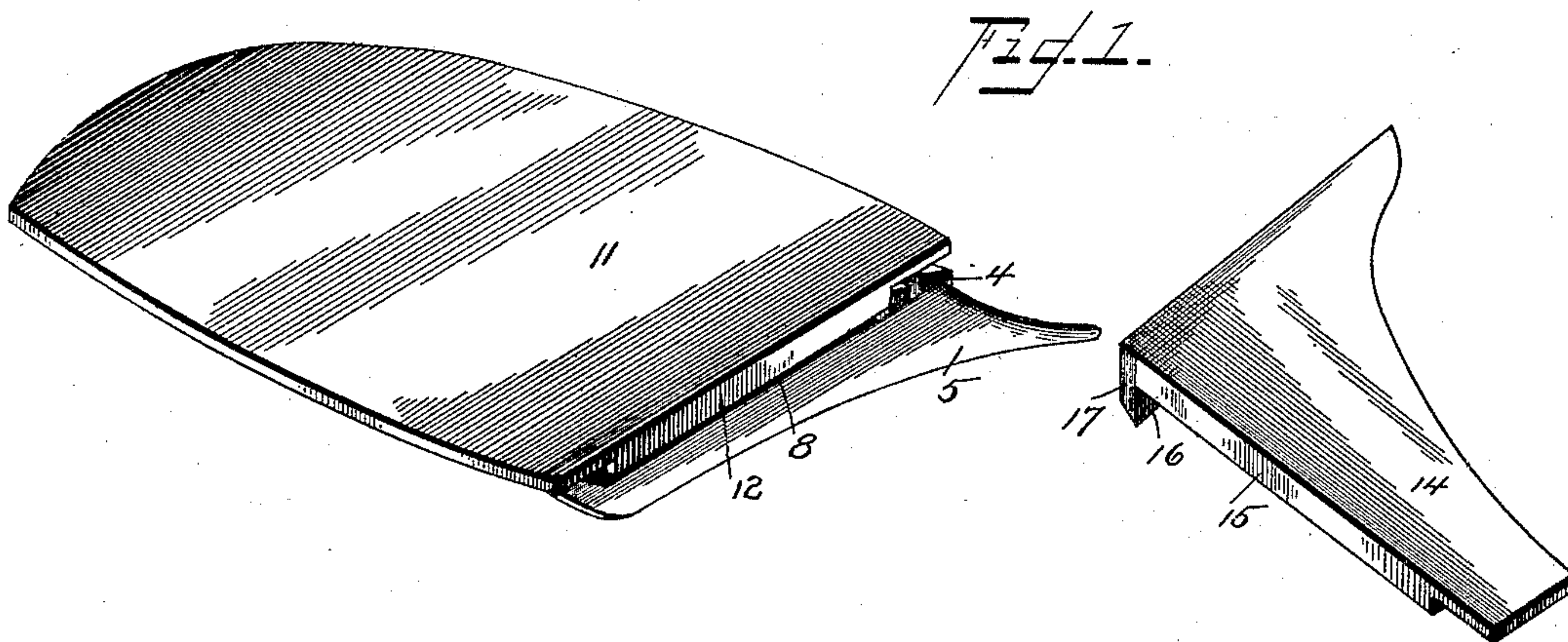


(No Model.)

J. C. MESSER & A. GARNER.  
PLOW.

No. 434,938.

Patented Aug. 26, 1890.



Witnesses

F. L. Curand,

Wm. Bagger.

Inventor

Jeremiah C. Messer, and Allen Garner.

By their Attorneys,

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# UNITED STATES PATENT OFFICE.

JEREMIAH C. MESSER AND ALLEN GARNER, OF SAN MARCOS, TEXAS.

## PLOW.

SPECIFICATION forming part of Letters Patent No. 434,938, dated August 26, 1890.

Application filed May 3, 1890. Serial No. 350,450. (No model.)

*To all whom it may concern:*

Be it known that we, JEREMIAH C. MESSER and ALLEN GARNER, citizens of the United States, residing at San Marcos, in the county of Hays and State of Texas, have invented a new and useful Plow, of which the following is a specification.

This invention relates to plows; and it has for its object to construct a plow with a detachable point, which may be removed from the plow in an easy and convenient manner and which may be held securely attached to the plow without the use of bolts.

The invention consists in the improved construction of the plow and plow-point, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of our improved plow, showing the point of the same detached. Fig. 2 is a bottom plan view of the same. Fig. 3 is a sectional view taken on the line  $xx$  in Fig. 2.

Like numerals of reference indicate like parts in all the figures.

1 and 2 designate a pair of plates, the rear ends of which are connected by means of bolts 3. The inner plate 2 is made slightly divergent at its front end, and the front end of the outer plate 1 is beveled to an edge 4. 5 designates the base-plate of our improved plow, which is provided at one edge with a flange 6, which is interposed between the front ends of the plates 1 and 2 and is secured by means of bolts 7. The base-plate 5 conforms to the curvature of an ordinary turning-plow, and it serves as a seat for the attachment of the point and mold-board. The said base-plate 5 is provided with a slot 8 and with an upward and rearward extending arm 9, the upper extremity of which is screw-threaded, as shown at 10.

11 designates the mold-board, which is provided at its lower edge with a flange 12, adapted to fit in the slot 8 of the base-plate. The under side of the said mold-board is provided with a loop 13, fitting upon the arm 9, upon which the said mold-board may slide to an extent limited by the movement of the flange 12 in the slot 8.

14 designates the plow-point, which is provided at its upper edge with a flange 15,

adapted to fit in the slot 8 of the base-plate below the flange 12 of the mold-board. The outer edge of the plow-point is provided with a flange 16, the rear end of which is beveled at 17 to fit between the front ends of the plate 4 and flange 6. The flange 16 and the plate 1, having beveled meeting ends, will form a smooth and compact joint, and they together form the landside of our improved plow. The under side of the base-plate 5 has an upwardly and outwardly extending arm 17, provided with perforations 18, for the attachment, when desired, of a suitable fender.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of our improved plow will be readily understood.

The parts of the plow, being properly assembled or put together, may be securely connected by tightening the nut 19 upon the screw-threaded portion 10 of the arm or shank 9 down against a collar 20, which is secured to the underside of the mold-board and slides upon the screw-threaded shank 10. The mold-board will thus be forced in a downward direction until its flange 12 binds the flange 15 of the plow-point securely in the slot 8.

The plow-point may be detached by simply loosening the nut 19 sufficiently to enable the flange 15 of said plow-point to be lifted out of the slot 8.

Having thus described our invention, we claim—

1. In a plow, the combination of a pair of clamping-plates, a seat or base-plate having a downwardly-extending flange secured between the front ends of said plates, said base-plate being provided with a transverse slot, the mold-board and point provided at their meeting edges with flanges adapted to be seated in said slot, and means for clamping or securing the said mold-board and point in position, substantially as set forth.

2. In a plow, the combination of the base-plate or seat having a transverse slot and provided with an upward and rearward extending arm or shank screw-threaded at its upper end, the mold-board having collars mounted to slide upon the said arm or shank and provided at its lower edge with a flange fitted in the slot of the base-plate, and the

point provided with a flange fitted in said slot, substantially as set forth.

3. The combination of the clamping-plates, the outer one of which is beveled at its front  
5 end, the base-plate having a flange secured between the front ends of said clamping-plate, said base-plate being provided with an upward and rearward extending screw-threaded  
10 arm or shank, the mold-board provided with collars mounted to slide in said shank and having a flange at its lower edge, the point having a flange at its upper edge and provided at its outer edge with a downward-extending flange beveled at its rear end, and  
15 the clamping-nut, substantially as and for the purpose set forth.

4. The combination of the base-plate or seat having a transverse slot, the mold-board connected slidingly to said seat and having a flange fitted in said slot, and the plow-point  
20 having a flange at its upper edge adapted to be clamped in said slot by the flanged mold-board, substantially as set forth.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JEREMIAH C. MESSER.  
ALLEN GARNER.

Witnesses:

CHAS. HUTCHINGS,  
ROBERT H. LAIRD.