

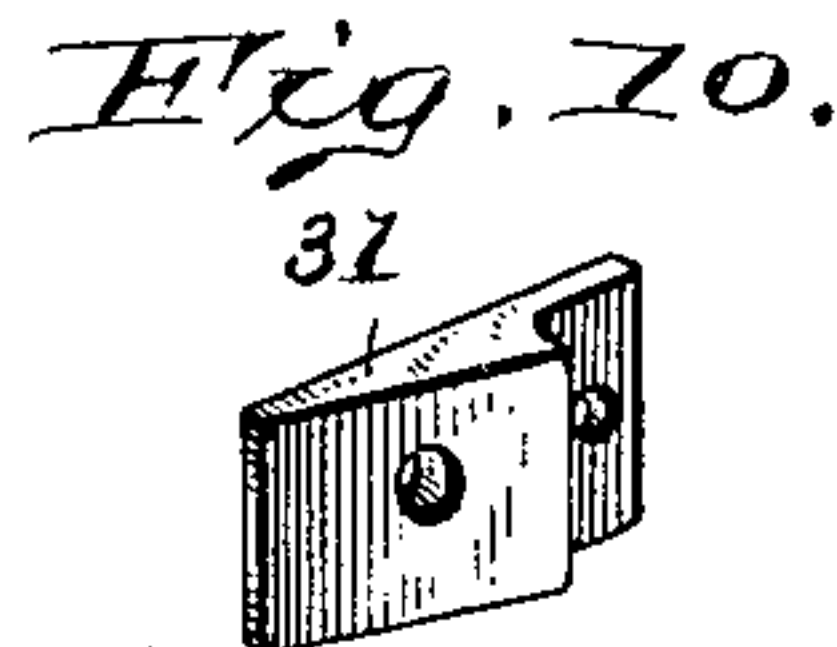
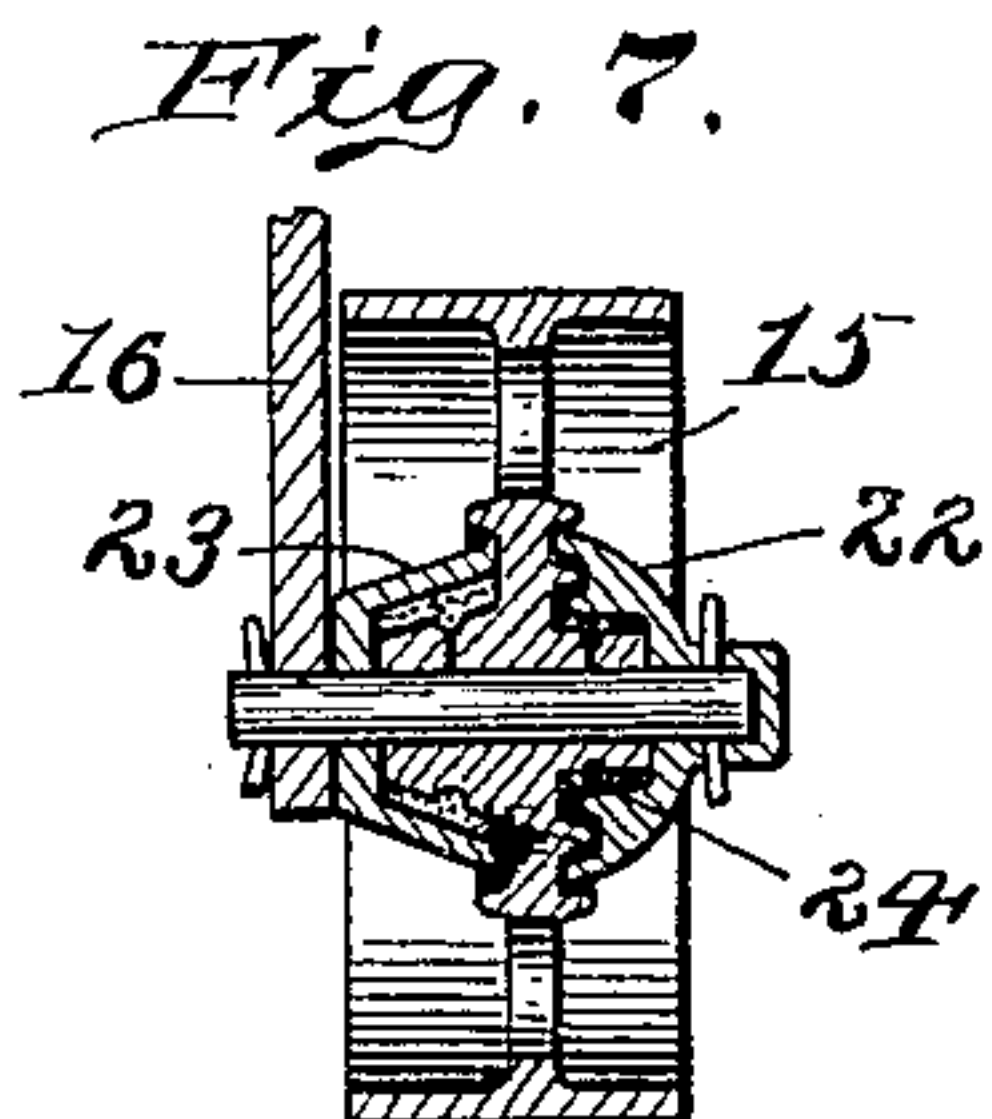
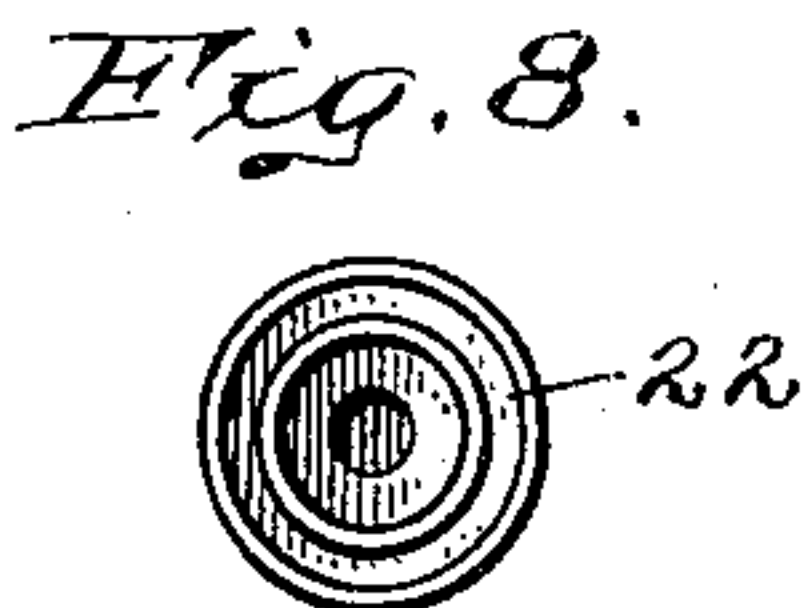
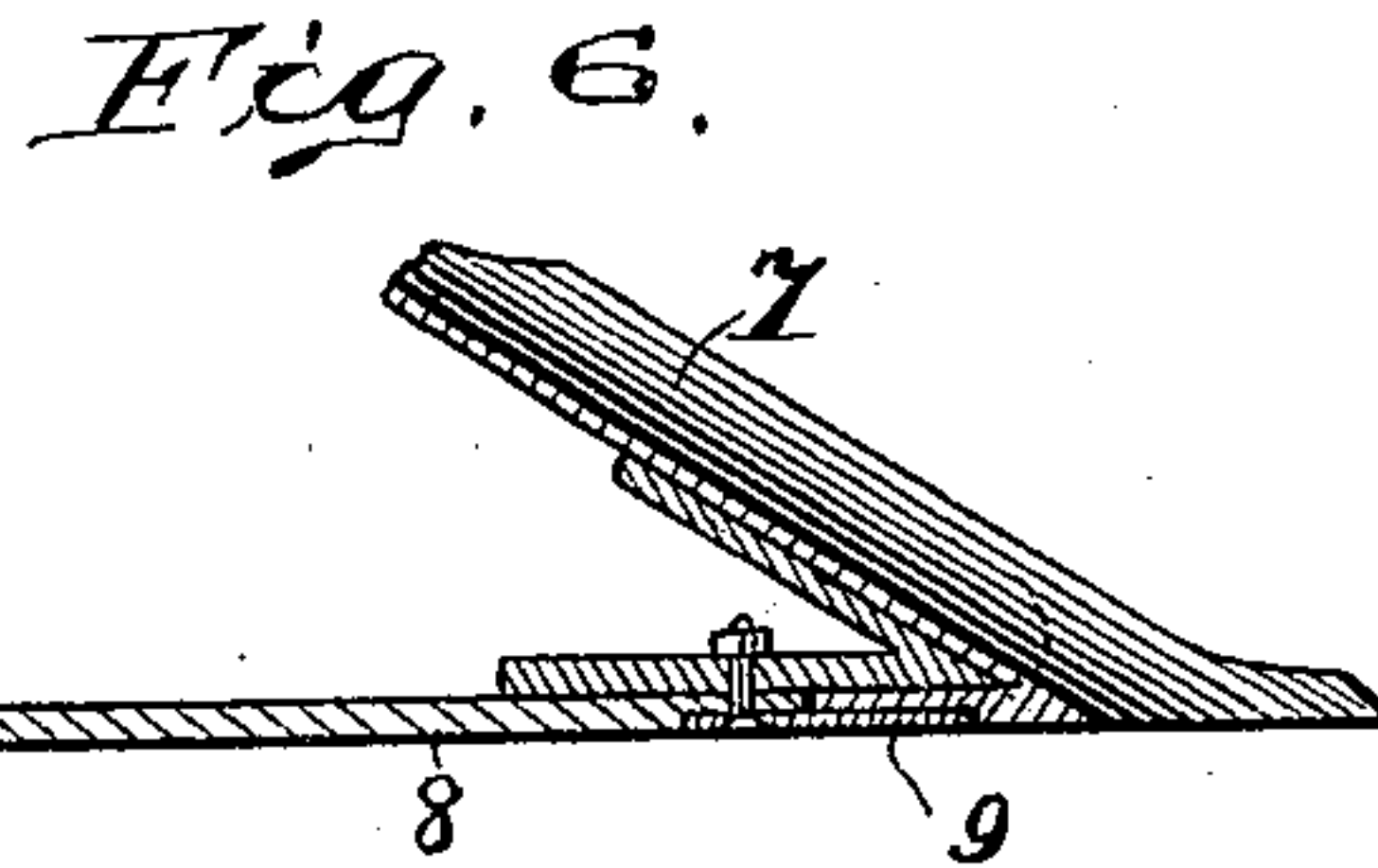
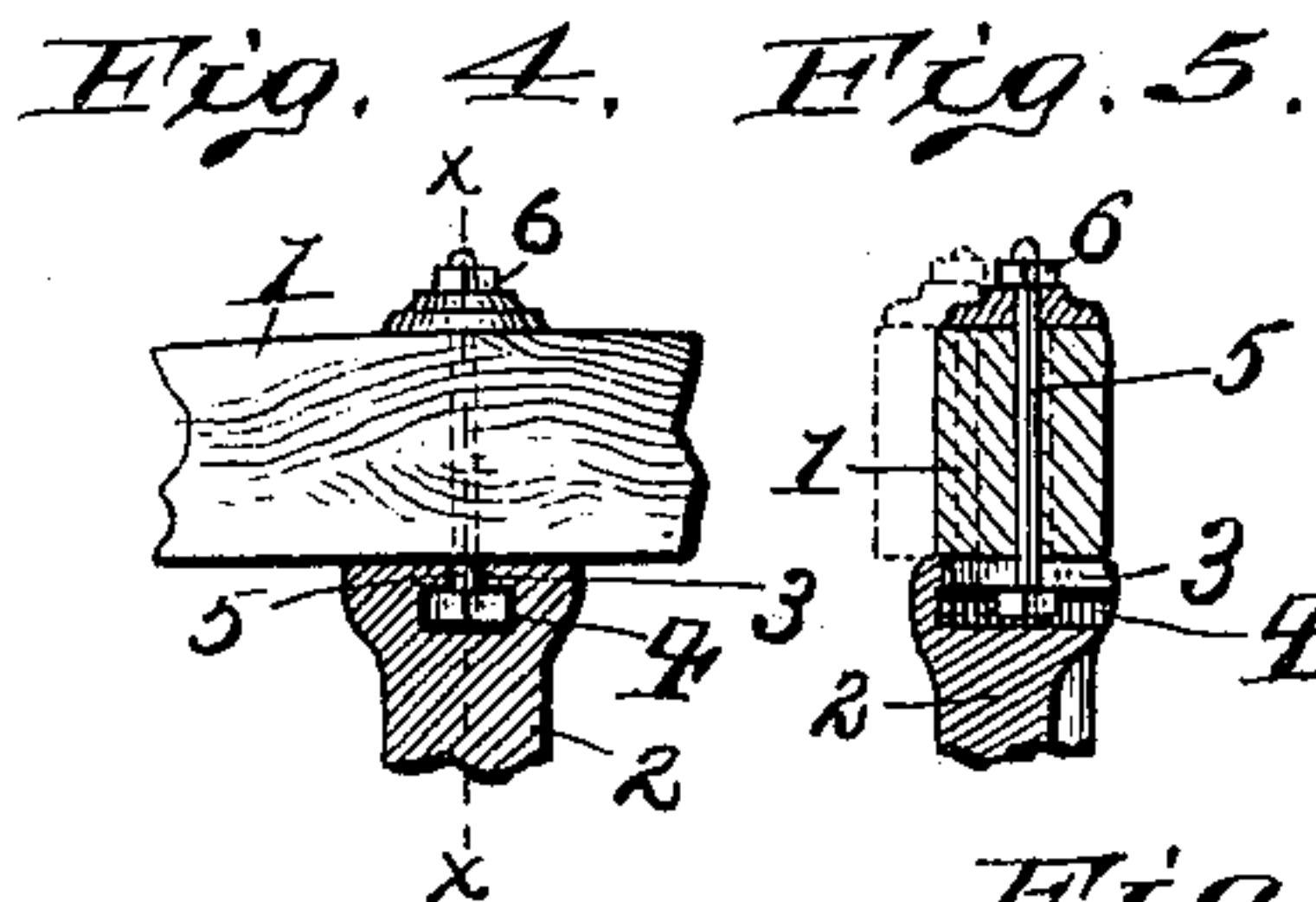
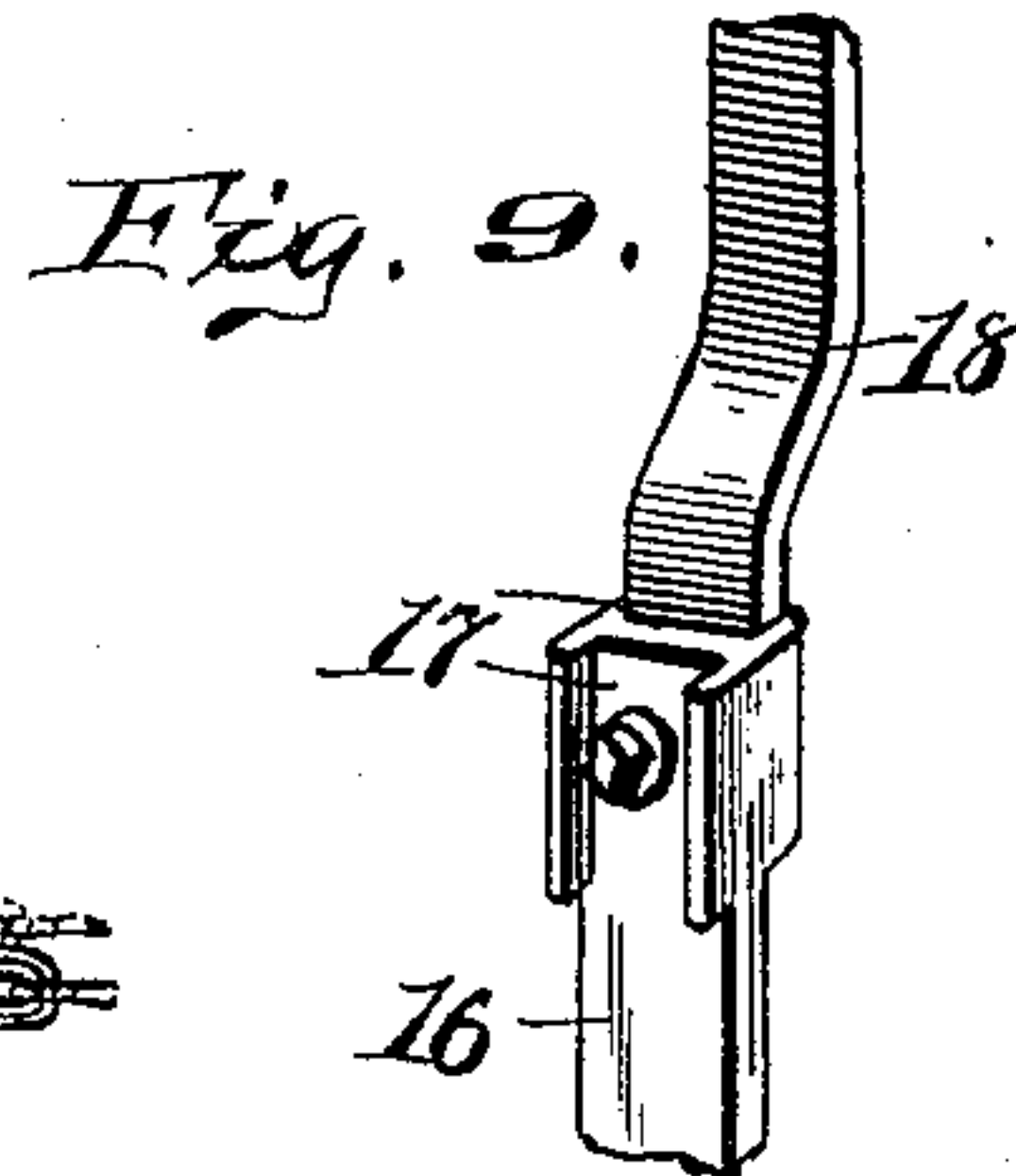
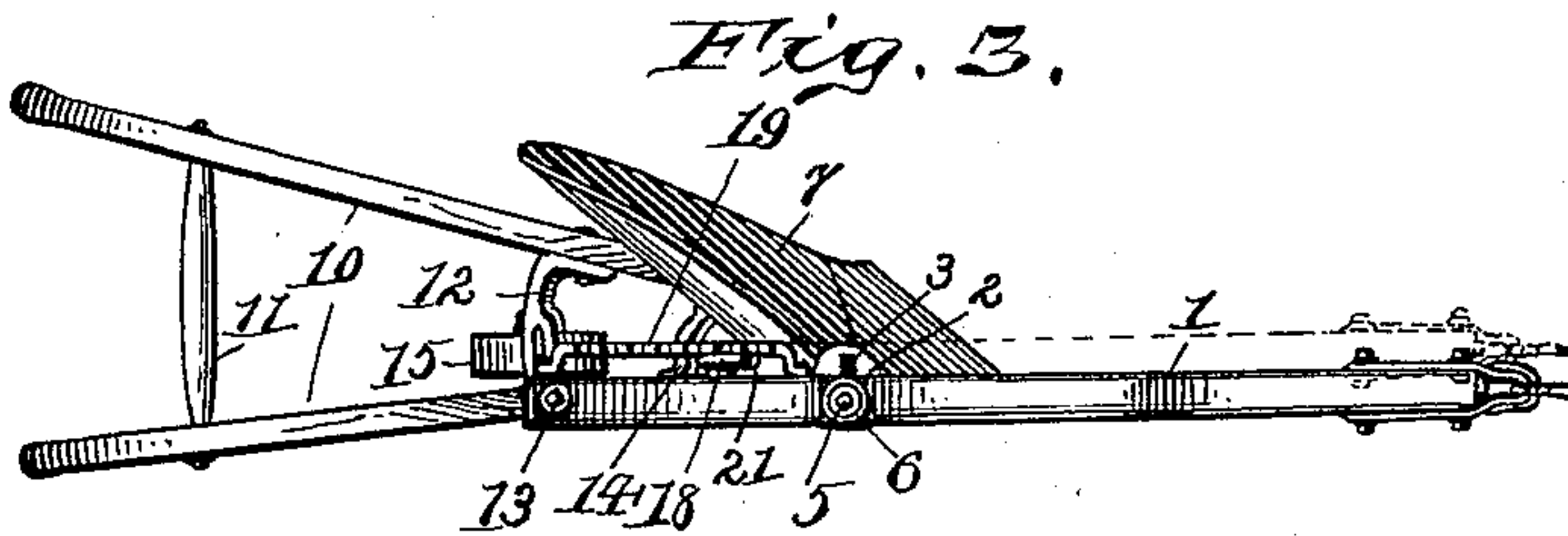
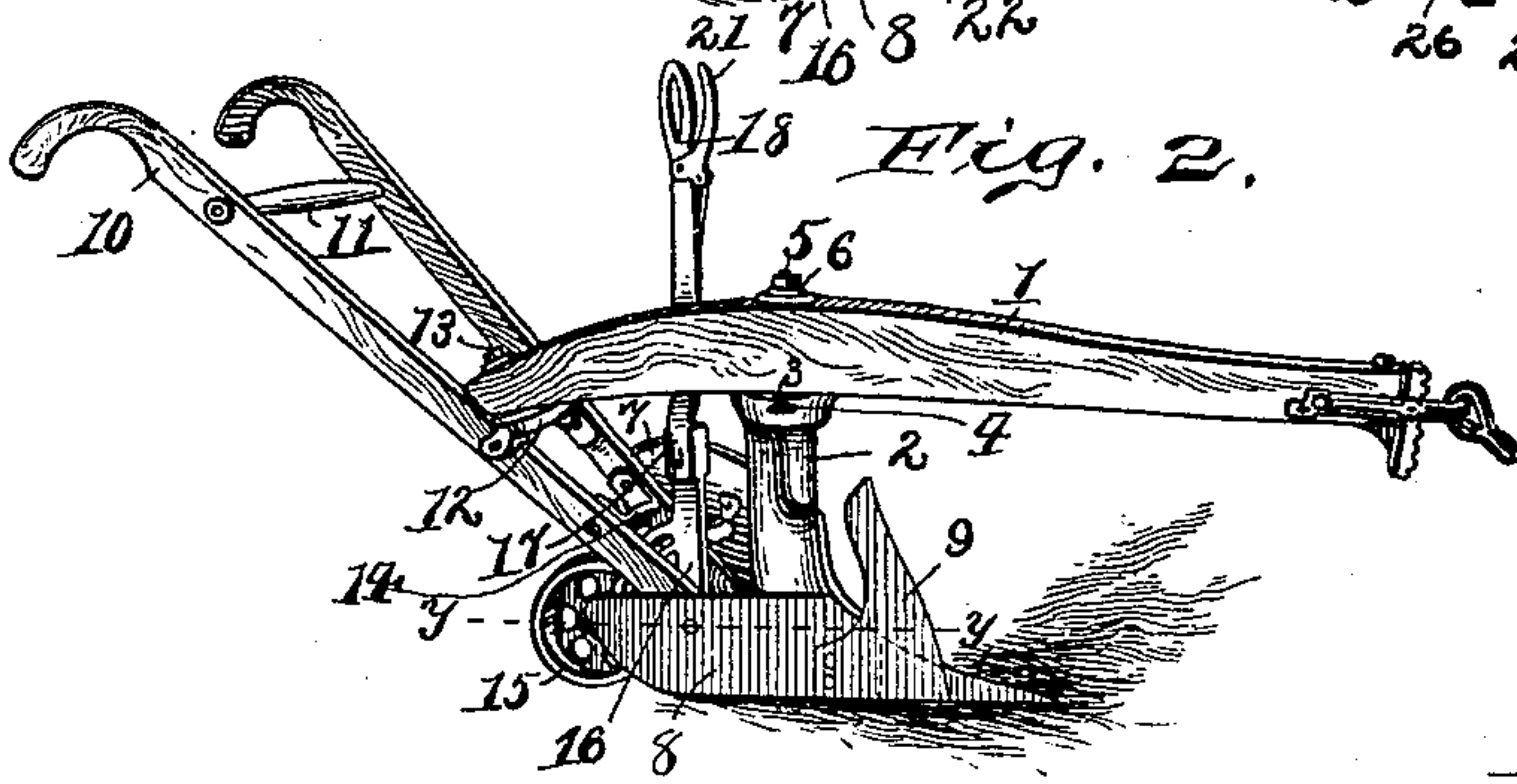
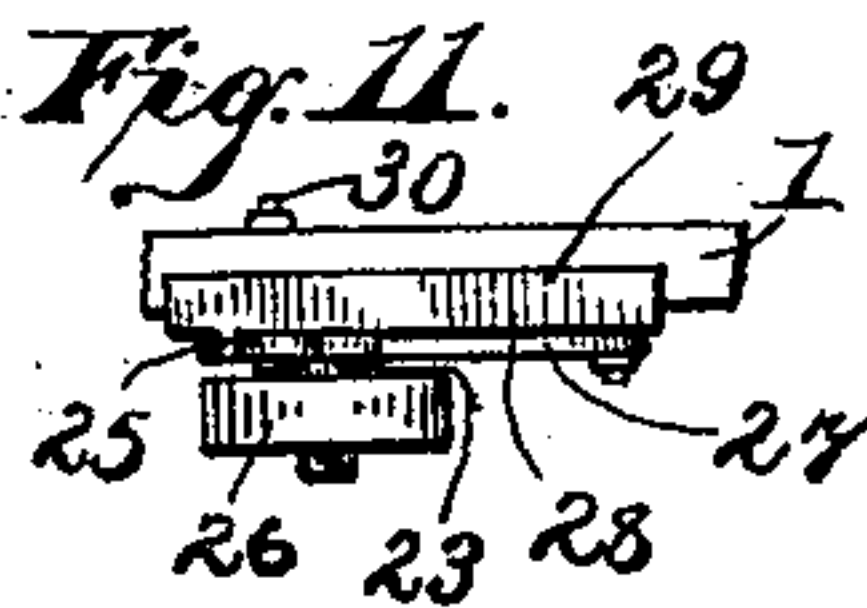
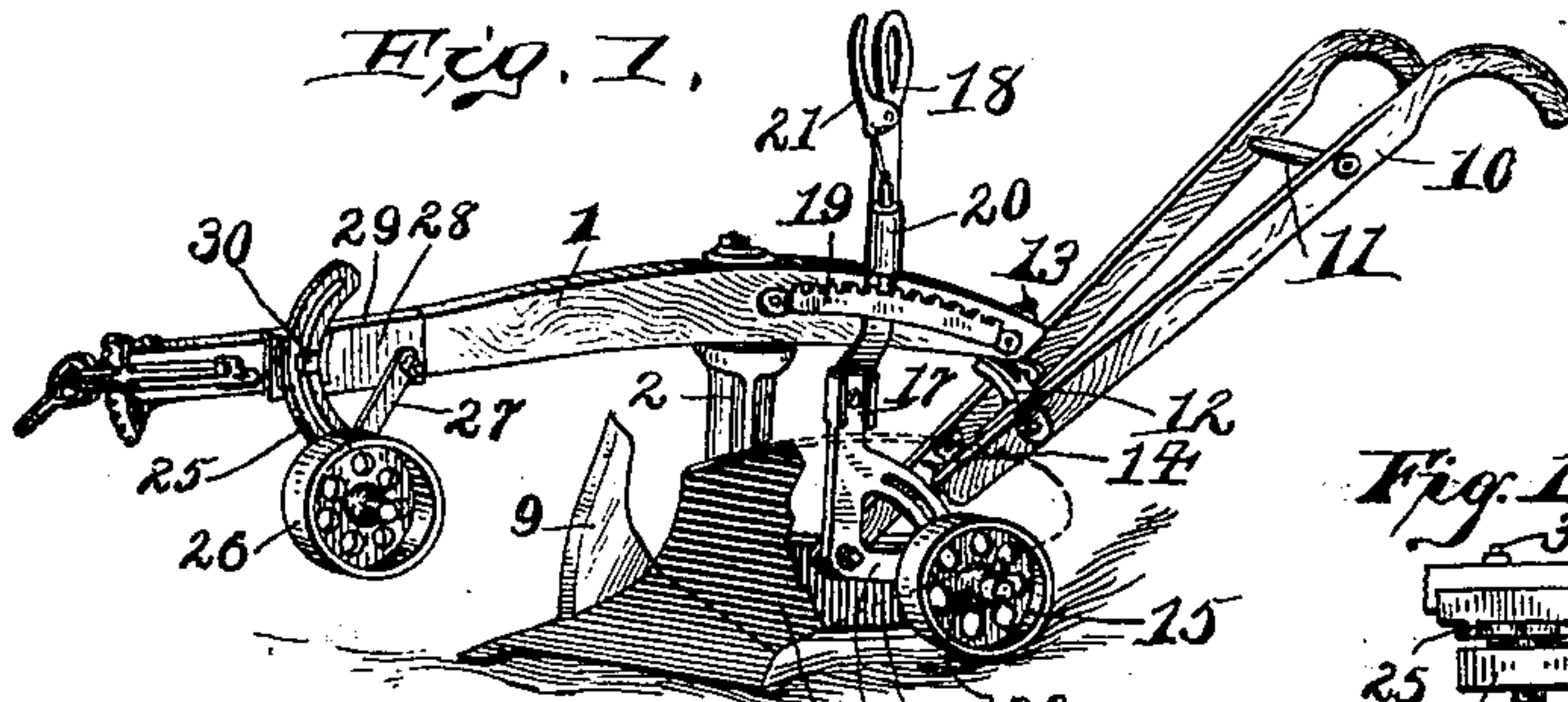
No. 611,191.

Patented Sept. 20, 1898.

G. BALDWIN.
PLOW.

(Application filed Nov. 22, 1897.)

(No Model.)



Witnesses
G. S. Frye
L. Nathan.

Inventor
George Baldwin,
By Attorney
Heber S. Paramore.

UNITED STATES PATENT OFFICE.

GEORGE BALDWIN, OF INDIANAPOLIS, INDIANA.

PLOW.

SPECIFICATION forming part of Letters Patent No. 611,191, dated September 20, 1898.

Application filed November 22, 1897. Serial No. 659,533. (No model.)

To all whom it may concern:

Be it known that I, GEORGE BALDWIN, a citizen of the United States, residing at Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Plows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
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My invention relates to new and useful improvements in plows of the class that have a means for regulating the depth of the furrow and for carrying the weight of the plow upon a ground-wheel; and it consists in the construction and arrangement of parts, as will be hereinafter described, and more particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a plow embodying my improvements, a part of the moldboard being broken away. Fig. 2 is a similar view taken from the opposite side of the plow. Fig. 3 is a top plan view. Fig. 4 is a detail view, partly in elevation and partly in section, showing the manner of adjustably connecting the standard to the plow-beam. Fig. 5 is a cross-section through the same on the line X X of Fig. 4. Fig. 6 is a longitudinal sectional view through the moldboard, landside, and cutter, taken on the line Y Y of Fig. 2. Fig. 7 is a cross-sectional view through the draft-wheel of the plow. Fig. 8 is an inner face view of the cap which fits on the outer end of the axle of the draft-wheel. Fig. 9 is a detail perspective view showing the connection of the hand-lever of the draft-wheel with the lower or main casting. Fig. 10 is a detail perspective view of the block which supports or carries the bearing-wheel casting, and Fig. 11 is a top plan view of the regulating-wheel upon the beam. The regulating-wheel is not shown in Figs. 2 and 3.

In detail 1 represents the draft-beam of the plow, and 2 the main casting or upright of the same and to which the beam is adjustably attached, as shown in Figs. 4 and 5, the upright having a slot 3 in its upper end which opens into a recess 4 below, the slot and recess being open on one side of the upright

and being adapted to receive the head of the bolt 5, the bolt itself passing through the plow-beam and on its upper end is locked by the nut 6.

7 is the moldboard, which instead of being hollowed in the center is perfectly straight across at any point which is parallel with its lower end.

8 is the landside, which is of the ordinary construction, and it and the share are carried on the lower curved end of the upright 2, the landside and the share being depressed sufficiently, as shown in Fig. 6, for the reception of a sod-cutter 9, thereby leaving the face of the sod-cutter flush with the face of the share and landside. It will be noticed that a part of the recess is formed in the moldboard and a part in the side of the landside. The sod-cutter may be of any desired form or construction, that shown in the drawings being very simple in construction.

10 are the plow-handles, one of which is attached to the inside of the landside and the other to the under side of the moldboard, the two handles being connected near their outer ends by the cross-bar 11 and below by the cross-curved casting 12, which is slotted to receive the bolt 13, which passes through the inner end of the beam 1. Through this and the bolt 6 the draft-beam can always be adjusted the same at one point as the other, as shown in dotted lines in Fig. 3, and hence the plow can be used with either a two or a three horse team without changing the line of draft—that is, there will be no side draft at all.

15 is the draft or ground wheel, which supports the weight of the plow, taking the friction off the landside, and this wheel is carried on the casting 16, which is pivoted to the inside of the landside on the same bolt which carries and holds the lower end of the handle on the landside.

31 is a block which fastens to the plow-handle and holds the draft-wheel handle in a perpendicular position.

14 is a cross-brace to stiffen the plow and joins the moldboard and landside. On the upper end of the casting 16 are formed recesses 17, one on each side, and by means of these the handle 18, by which the ground or draft wheel is regulated, may be changed to

suit the side adjustment of the draft-beam. The handle of the draft-wheel works between the draft-beam and a curved rack 19, secured on the side of the said beam, and by an in-
 5 closed spring locking-bolt 20 the draft or ground wheel may be set to regulate the plow for any desired depth. The locking-bolt 20 is operated by the handle 21. I have shown in detail in Fig. 7 a very efficient construc-
 10 tion to prevent dirt, &c., from entering the bearings of the land-wheel and draft-wheel, and it will be better understood by reference to that figure. The wheels 15 and 26 have a hub provided with annular grooves on each
 15 side and the caps 22 and 23, the first on the outside of the axle which carries the land and ground wheels and the latter being between the hub and the castings 16 and 25. Packing 24 is interposed between the caps
 20 and the hubs, so that the oil used in lubrication will not be wasted, and at the same time the packing prevents dust and dirt from entering the bearing, this being further insured by the connection of the caps with the hubs
 25 of the land and draft wheels. The land-wheel 26 is mounted at the lower end of the curved slotted arm 25, said arm having the integral brace 27, pivotally bolted to the casting 28. The casting 28 has the flange edges 29
 30 to embrace the beam 1 and a bolt-opening to receive the bolt 30, said bolt 30 passing through the slot in the curved arm 25, the casting 28, and the beam 1 and secured by means of a nut at the opposite side of the beam. By
 35 this means the depth of the furrow can be regulated easily and quickly.

It will be seen from the foregoing that this plow is very simple in construction, the ad-
 40 justment of the draft-beam is perfect, the construction of the landside and moldboard are such as to obtain the best results when in use, the insertion of the sod-cutter in a recess formed in the landside and moldboard insures a perfectly straight landside, and by
 45 the construction of the land and ground wheels it is impossible for any dust or dirt to enter the bearings of said wheels, and perfect lubrication is obtained.

Having fully described my invention, what
 50 I claim as new, and desire to secure by Letters Patent of the United States, is—

1. In a plow, having a draft-beam mounted on suitable adjusting-bolts at different points,

whereby it can be adjusted at such points so as to retain its same draft-line while being
 55 moved sidewise, the combination of the moldboard 7, formed straight from edge to edge upon any line parallel with its lower edge, the landside 8, having the depression near
 60 its front end, the share, having the depression upon its side, and the sod-cutter adapted to lie within the depressions in said landside and share, with the land-wheel 26, mounted upon the pivotal brace 27, and adjusted by
 65 means of the curved slotted arm 25, working in the casting 28, and the draft-wheel 15, mounted upon a pivotal casting 16, and adjusted by means of a lever 18, having a spring locking-bolt 19, working in a curved rack-bar
 70 20, all as shown and described.

2. In a plow, the combination of a draft-beam mounted on suitable adjusting-bolts at different points, whereby it can be adjusted
 75 at such points so as to retain its same draft-line while being moved sidewise, a draft-wheel carried on the plow, and adjustable through a handle, said handle being adjustable to suit the adjustment of the draft-beam, and a land-wheel carried on the plow-beam,
 80 and adjustable through a slotted curved arm, as shown and described.

3. In a plow, the draft and land wheels carried by suitable adjusting means, said wheels having hubs provided upon each side with
 85 annular grooves, the close outer cap 22, having like grooves and ribs to fit against the outer face of said hub, the open inner guard or cap 23, adapted to fit against the inner face of said hub, said wheels and caps mounted upon the loose axle and having a space be-
 90 tween each respectively, to receive the packing, as set forth.

4. In a plow, the landside and the share having a depression formed in each, a sod-cutter fitting in said depression, flush with the face
 95 of said landside and share, in combination with the moldboard formed perfectly straight across, from its front to its rear edge, on any line parallel with its lower edge, as set forth.

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

GEORGE BALDWIN.

Witnesses:

HARRY C. BAUER,
 LUCY NATHAN.