

PLOW.

APPLICATION FILED JAN. 7, 1911.

Patented June 13, 1911.

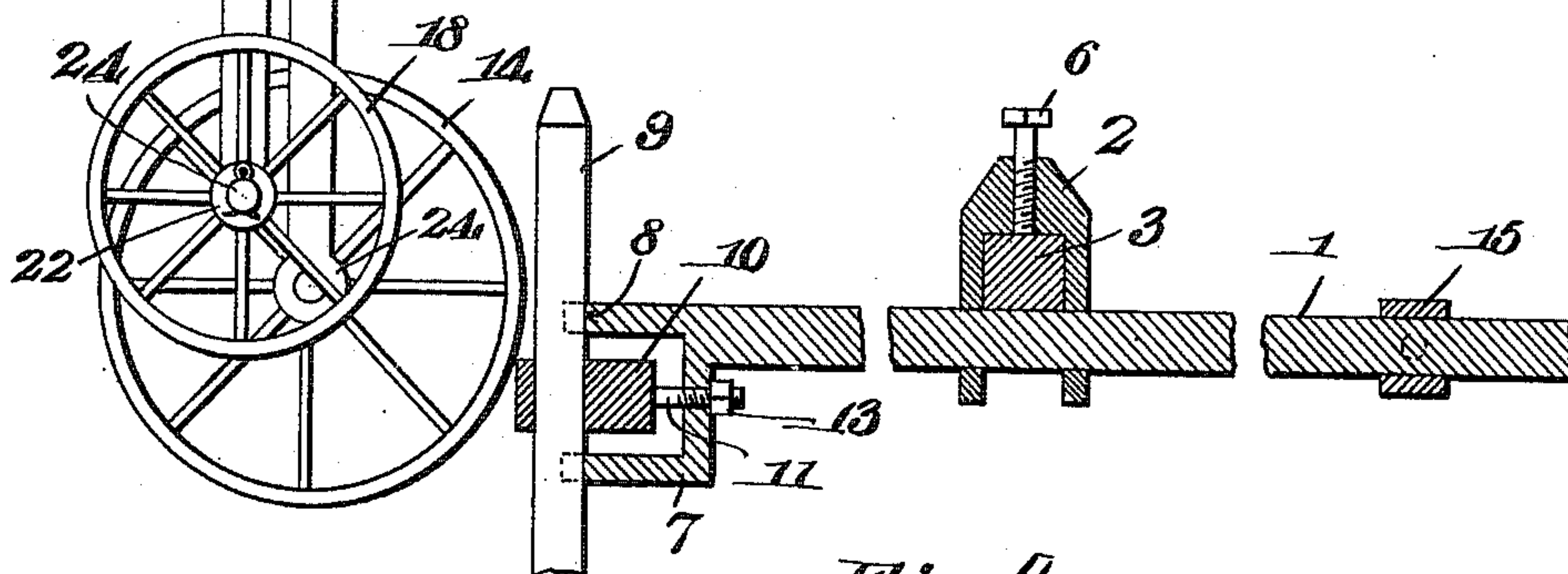
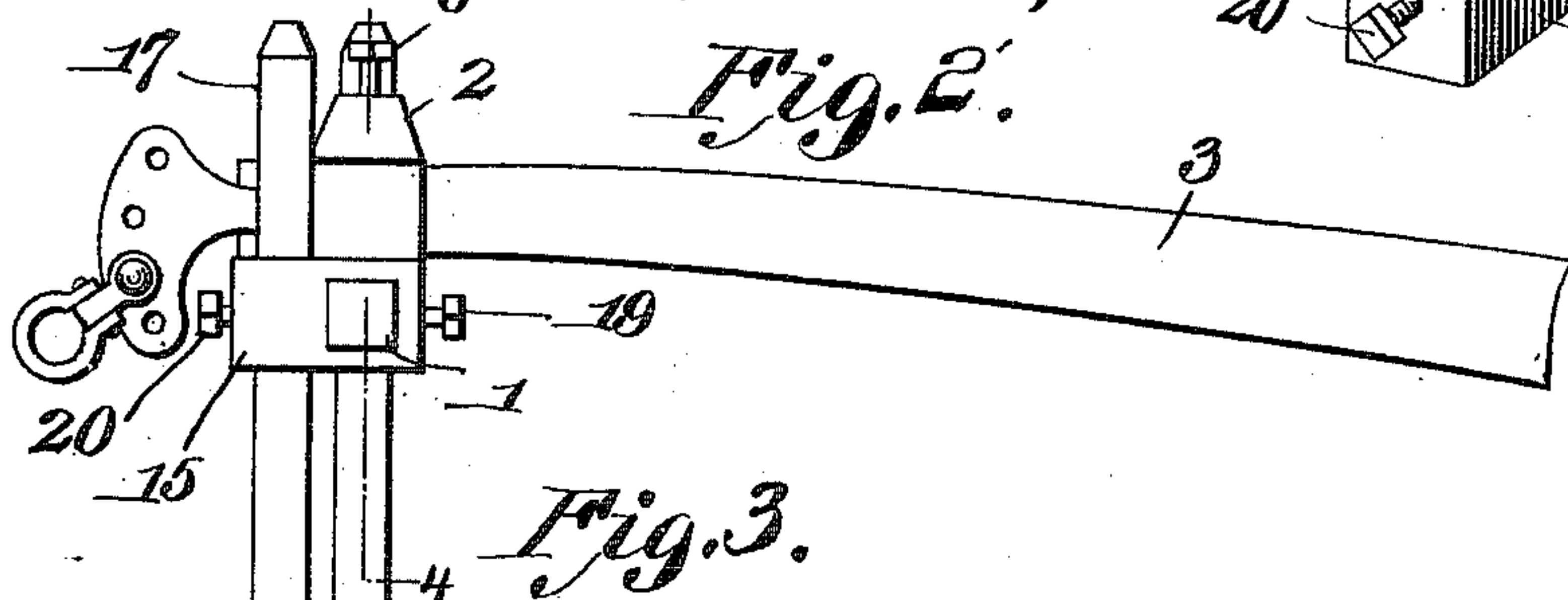
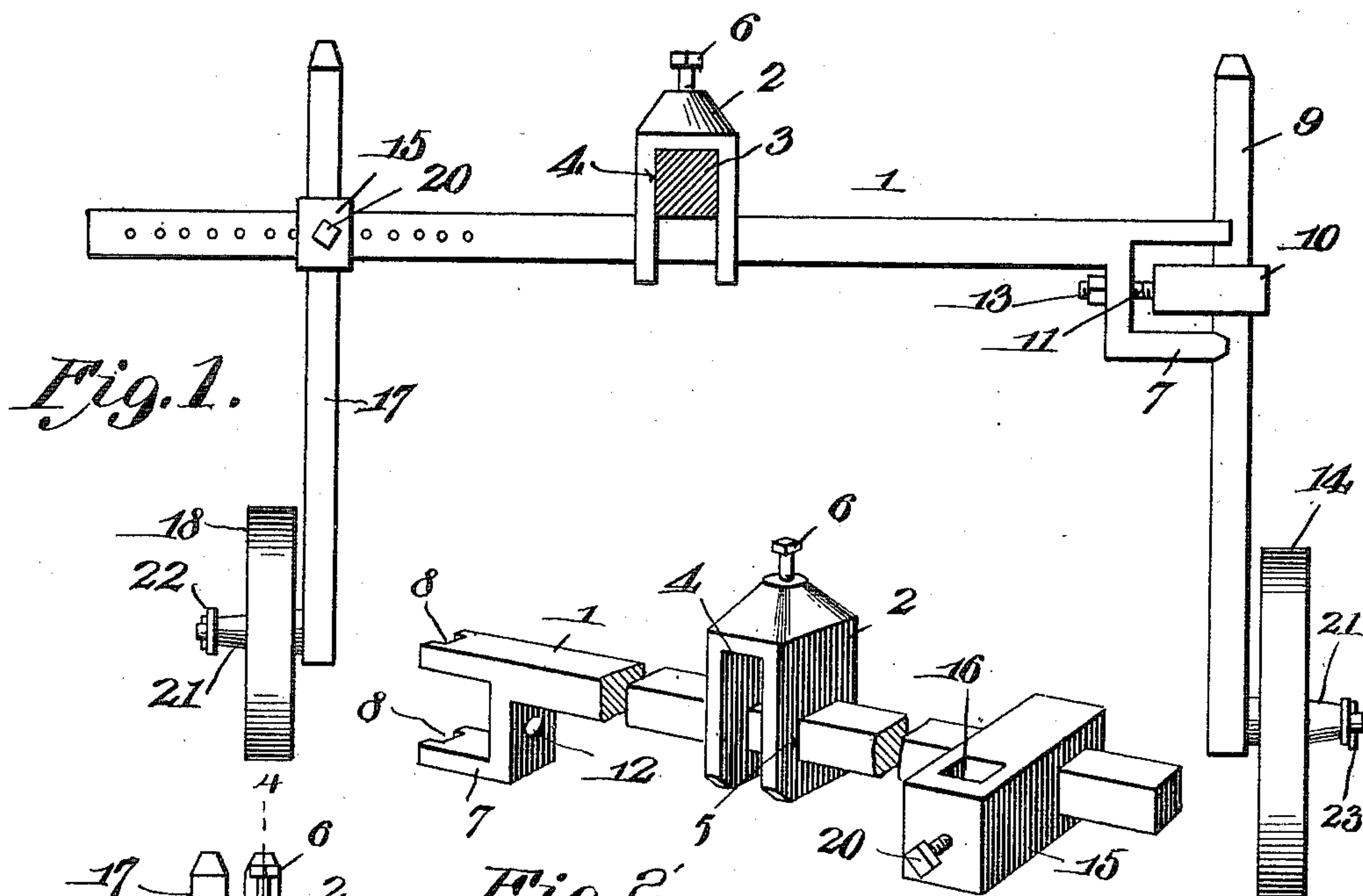


Fig. 4.

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PLOW.

994,769.

Specification of Letters Patent. Patented June 13, 1911.

Application filed January 7, 1911. Serial No. 601,300.

To all whom it may concern:

Be it known that I, ROBERT McKEE, a citizen of the United States of America, residing at Warsaw, in the county of Wyoming and State of New York, have invented new and useful Improvements in Plows, of which the following is a specification.

This invention relates to plows, and it has for its object to provide a simple and efficient wheel attachment adapted to be used in connection with a walking plow of ordinary construction, said wheel attachment comprising a land wheel and a furrow wheel and means whereby the said land and furrow wheels may be independently adjusted relatively to the plow beam.

With these and other ends in view which will readily appear as the nature of the invention is better understood, the same consists in the improved construction and novel arrangement and combination of parts which will be hereinafter fully described and particularly pointed out in the claims.

In the accompanying drawings has been illustrated a simple and preferred form of the invention, it being, however, understood that no limitation is necessarily made to the precise structural details therein exhibited, but that changes, alterations and modifications within the scope of the claims may be resorted to when desired.

In the drawings,—Figure 1 is a vertical sectional view taken transversely through the plow beam and looking rearward in the direction of the improved wheel attachment. Fig. 2 is a perspective detail view of the main supporting beam and the clip whereby the latter is attached to the plow beam. Fig. 3 is a side elevation of a plow equipped with the improved attachment. Fig. 4 is a sectional detail view taken on the line 4—4 in Fig. 3.

Corresponding parts in the several figures are denoted by like characters of reference.

The present invention comprises a beam or cross bar 1 upon which the beam 3 of an ordinary plow is adapted to be mounted by means of a clip 2. It will be understood that by properly proportioning the clip 2, the device may be associated with an iron or a wooden beam, as may be desired.

The clip 2 consists of a block provided with a vertical recess 4 straddling the plow beam 3, said block being provided with a transverse aperture 5 intersecting the recess

4 for the passage of the bar 1. The block constituting the clip or fastening member is also provided in the top thereof with a vertically disposed set screw 6 which, when the parts are assembled, may be tightened against the upper edge of the plow beam 3 so as to draw the cross bar 1 up against the lower edge of said plow beam, thereby tightening and assembling the parts together. By slightly loosening the set screw 6 the clip may be adjusted longitudinally of the plow beam, and the cross bar 1 may be adjusted transversely of the plow beam, as will be readily understood until the desired relative positions of the parts have been attained, after which by tightening the set screw 6 the parts may be tightly and securely assembled.

One end of the bar 1 is provided with a depending angular lug 7 depending therefrom. The terminal edges of the bar 1 and the lug 7, which are disposed in vertical alinement, are provided with recesses 8 affording seats for a vertically movable standard 9 which is provided with a collar 10 disposed between the horizontal portions of the bar 1 and the lug 7 and having a threaded stem 11 which projects through an aperture 12 in the vertical wall of the lug 7, said stem being provided with a tightening nut 13. The standard 9 carries at its lower end a wheel 14 which will be regarded as the furrow wheel of the device.

Longitudinally movable upon the bar 1 is a collar 15 having an intersecting vertical aperture 16 for the passage of a standard 17 carrying at its lower end a land wheel 18. Separate set screws 19 and 20 are employed for securing the collar 15 adjustably upon the bar 1 and the standard 17 adjustably with reference to said collar. The wheels 14 and 18, which constitute, respectively, the furrow wheel and the land wheel of the improved device, are provided with hubs, the inner ends of which are relatively short and abut upon the bearings formed at the lower ends of the standards 9 and 17, while the outer ends of the hubs, shown at 21, are relatively long and are secured by means of washers 22 and keys 23 upon the spindles or bearings 24 at the lower ends of the respective standards.

It will be readily understood from the foregoing description taken in connection with the drawings hereto annexed that the

bar 1 may be adjusted transversely and longitudinally of the plow beam, while the standard 9 carrying the furrow wheel may be adjusted vertically of said bar, thus enabling any width and any depth of furrow to be turned. On the other hand, the standard carrying the land wheel may be adjusted vertically and longitudinally with reference to the bar 1, thus enabling said land wheel to be adjusted according to the conditions under which the plow is used. The general construction of the attachment is simple and inexpensive.

The device may be readily attached to and used in connection with any walking plow of ordinary construction, and the plow to which it is applied may be guided with perfect accuracy without lateral movement or wobbling. If obstructions are encountered by the plow, the latter will immediately resume its straightforward course after passing such obstructions. Not only will the work of the operator who guides the plow be in this manner greatly facilitated, but the work of the draft team will be materially lightened, and work heretofore requiring the use of three draft animals may, by the use of this invention, be performed in an equally satisfactory manner by the use of two animals, thereby effecting a very material saving without reducing the quality of the work.

Having thus described the invention, what is claimed as new, is:—

35 1. A wheel attachment for plows comprising a bar having an angular lug at one end, the corresponding ends of the bar and lug being recessed to form seats, a wheel carrying standard guided upon said seats, means

for securing the standard in adjusted position, means for securing the bar upon a plow beam for longitudinal and transverse adjustment, and a wheel carrying standard mounted upon the bar at the end distant from the end having the angular lug. 40 45

2. A wheel attachment for plows comprising a bar having an angular lug at one end, the corresponding ends of the bar and lug being recessed to form seats, a wheel carrying standard guided upon said seats, means for securing the standard in adjusted position, means for securing the bar upon a plow beam for longitudinal and transverse adjustment, and a wheel carrying standard mounted upon the bar for longitudinal and vertical adjustment with reference to said bar at the end distant from the end having the angular lug. 50 55

3. A bar having at one end an angular lug, the ends of said bar and lug being recessed to form seats, a wheel carrying standard guided upon said seats and vertically adjustable with reference to the bar, means for securing said standard in adjusted position, a collar longitudinally adjustable adjacent to the opposite end of the bar, a wheel carrying standard vertically adjustable in said collar, and a clip engaging the bar intermediate the ends thereof having the angular lug and the adjustable collar and adapted to secure the bar for longitudinal adjustment upon a plow beam. 60 65 70

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

ROBERT McKEE.

Witnesses:

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M. S. LAMB.