

S. J. MAIXNER.
ATTACHMENT FOR WHEAT BINDERS.
APPLICATION FILED MAY 22, 1908.

923,676.

Patented June 1, 1909.
4 SHEETS—SHEET 1.

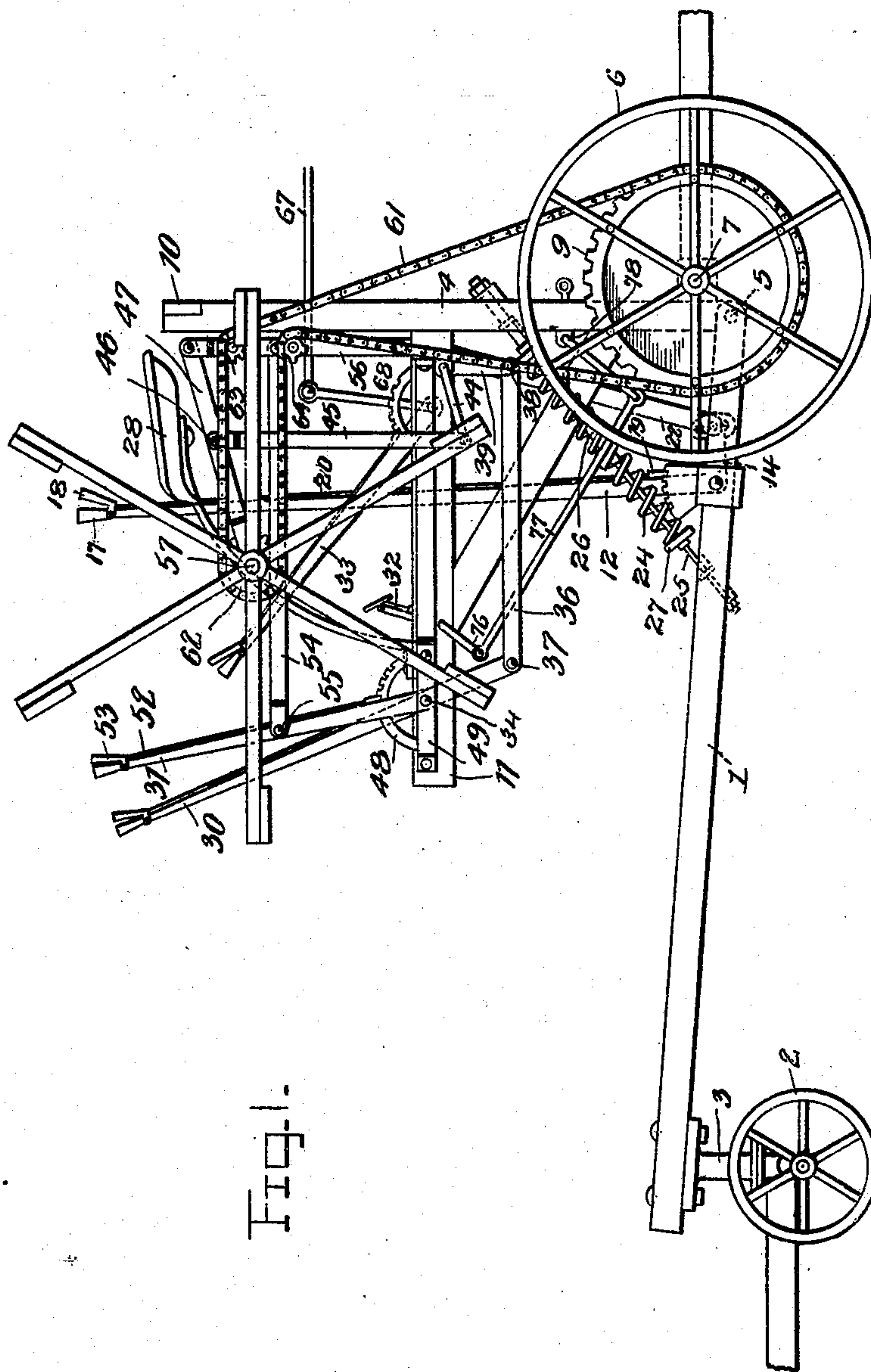


Fig. 1.

Witnesses

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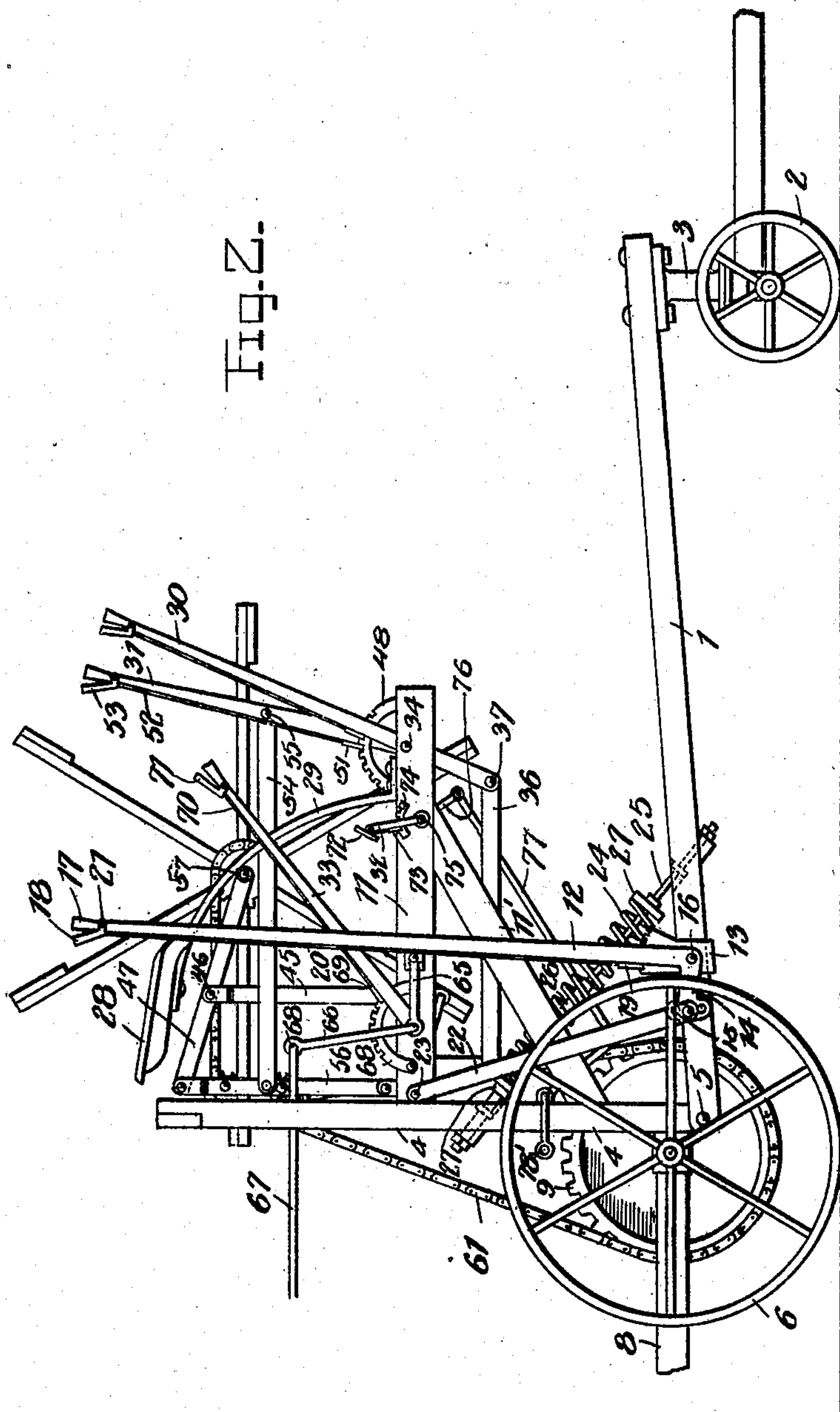
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4 SHEETS—SHEET 3.

Fig. 3.

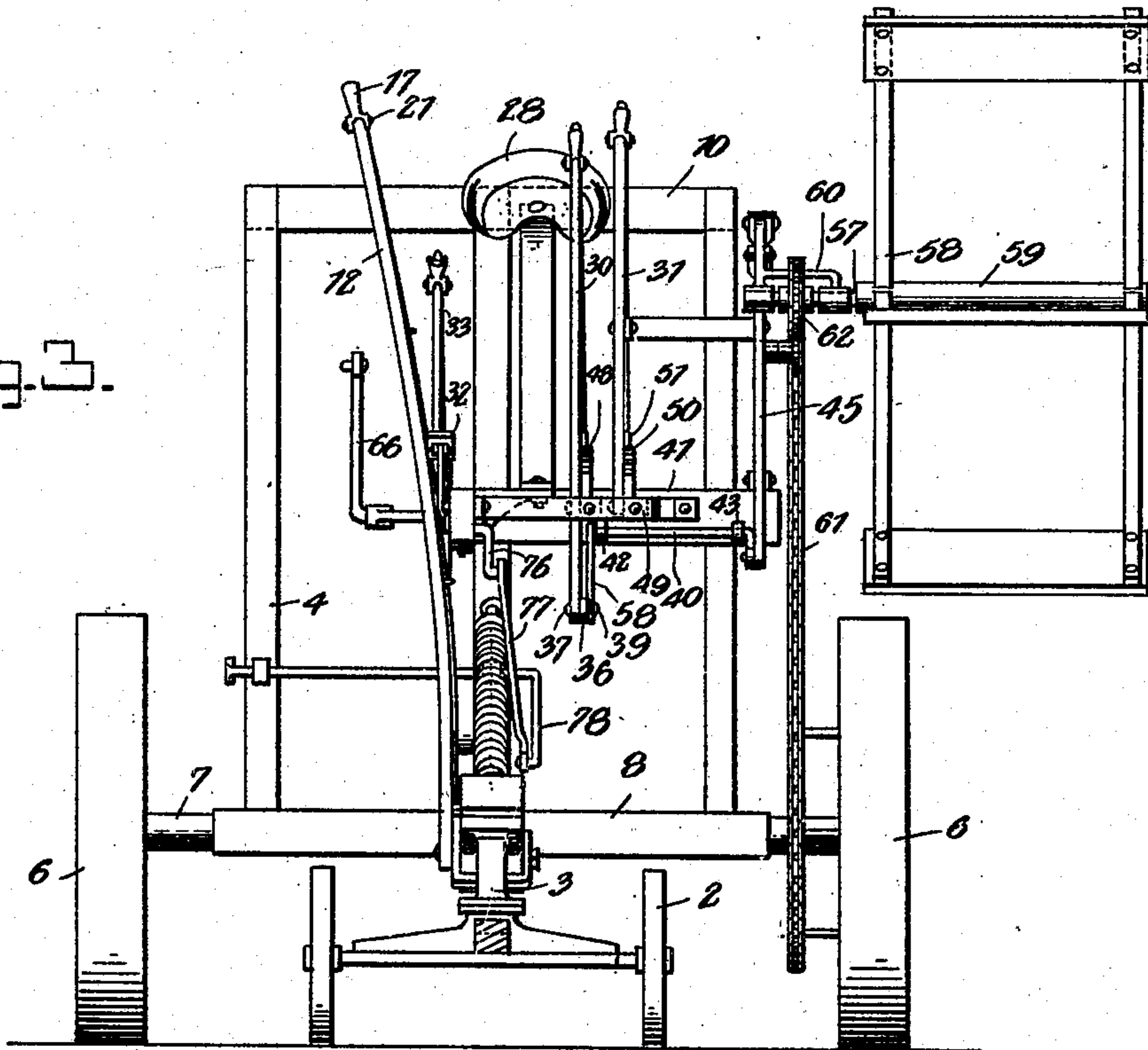
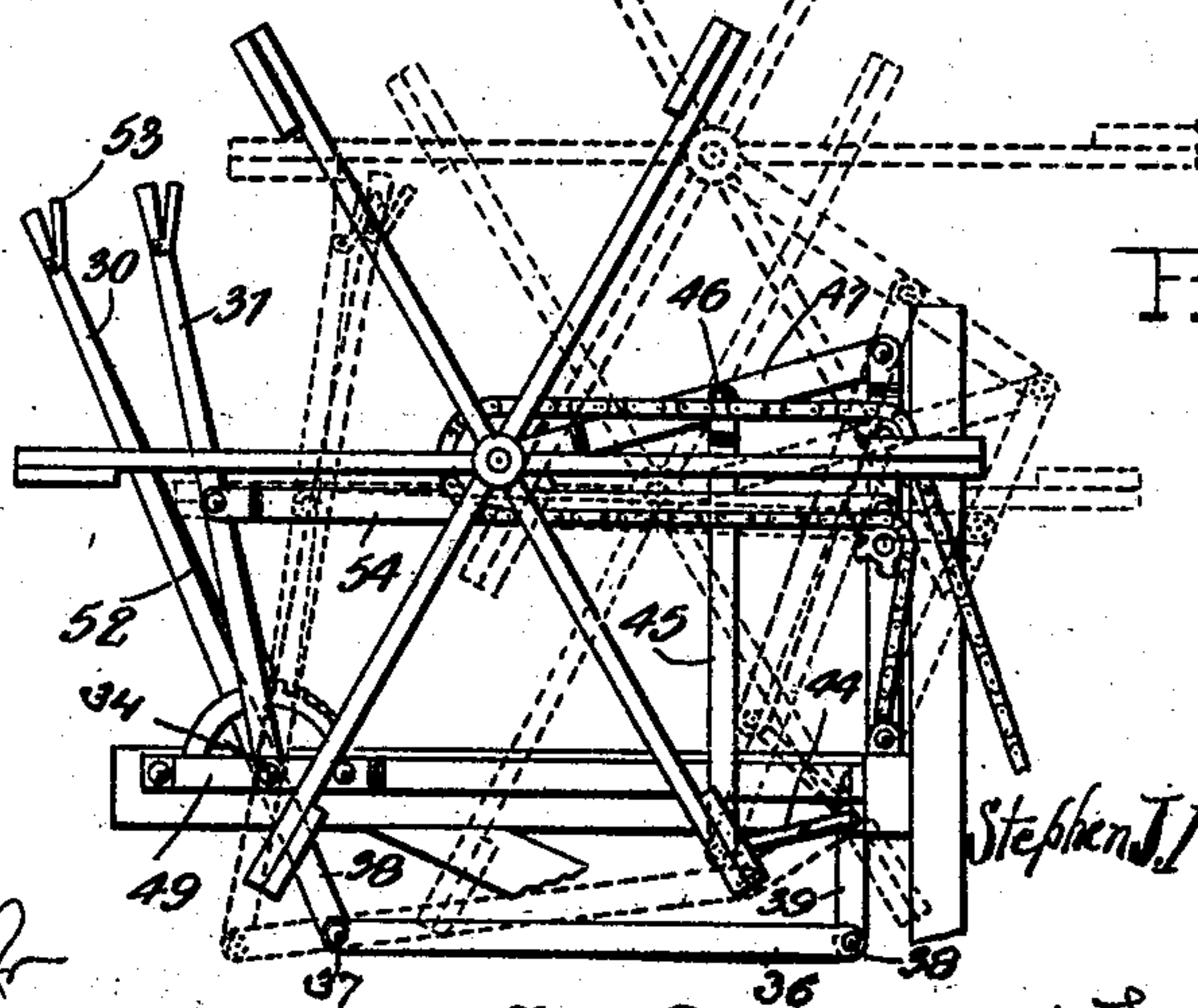


Fig. 4.



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4 SHEETS—SHEET 4.

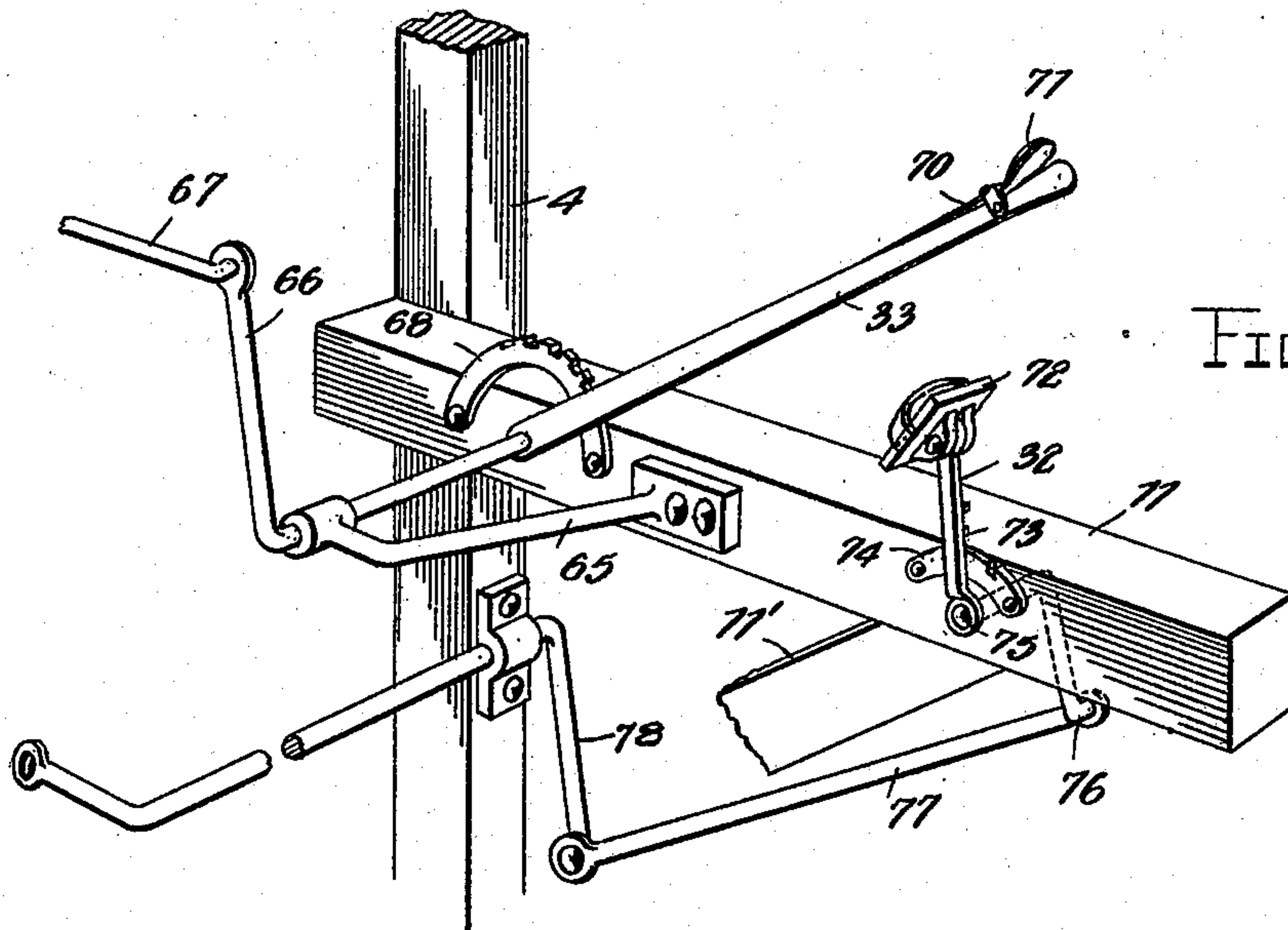


Fig. 5.

Fig. 7.

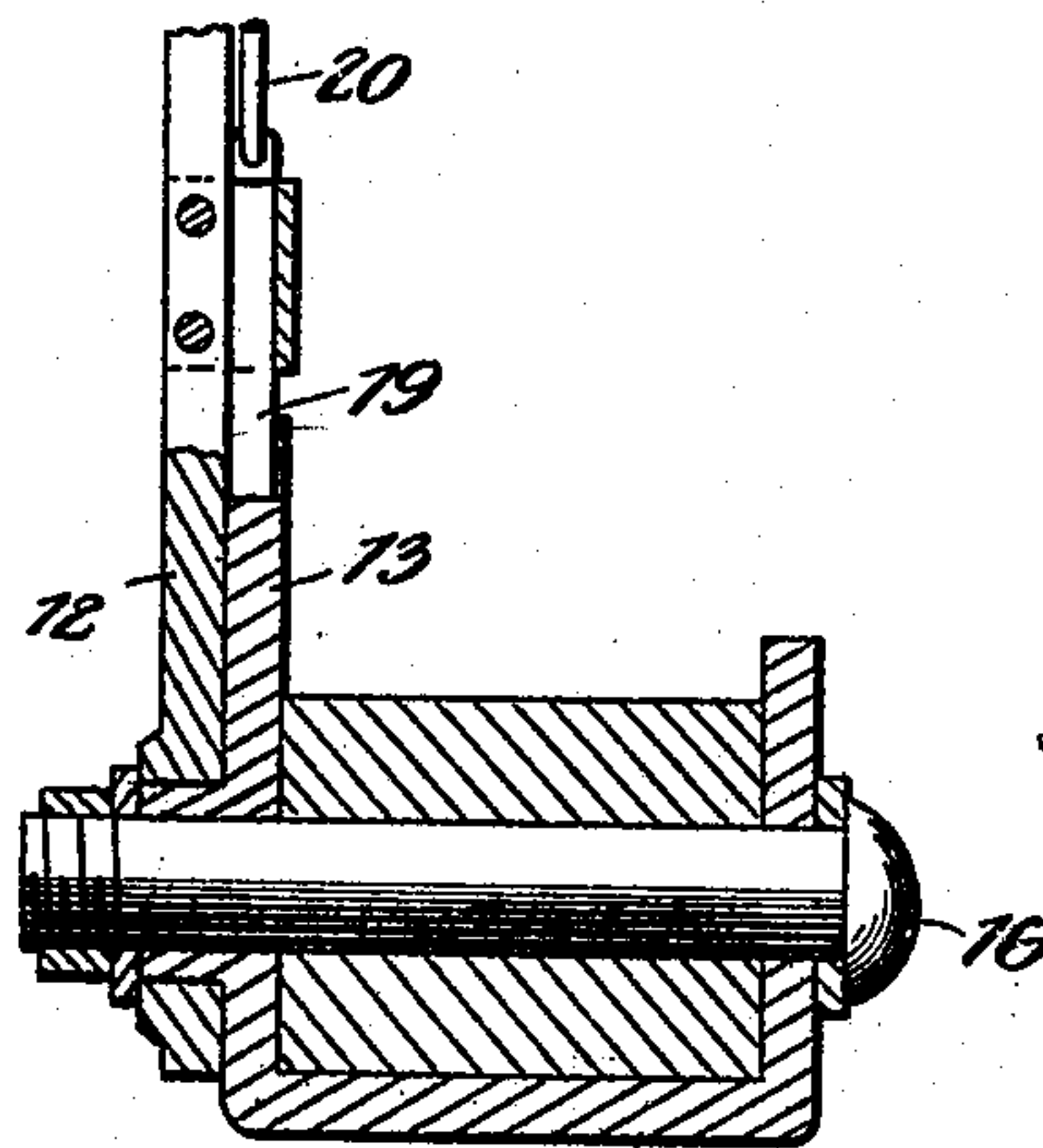
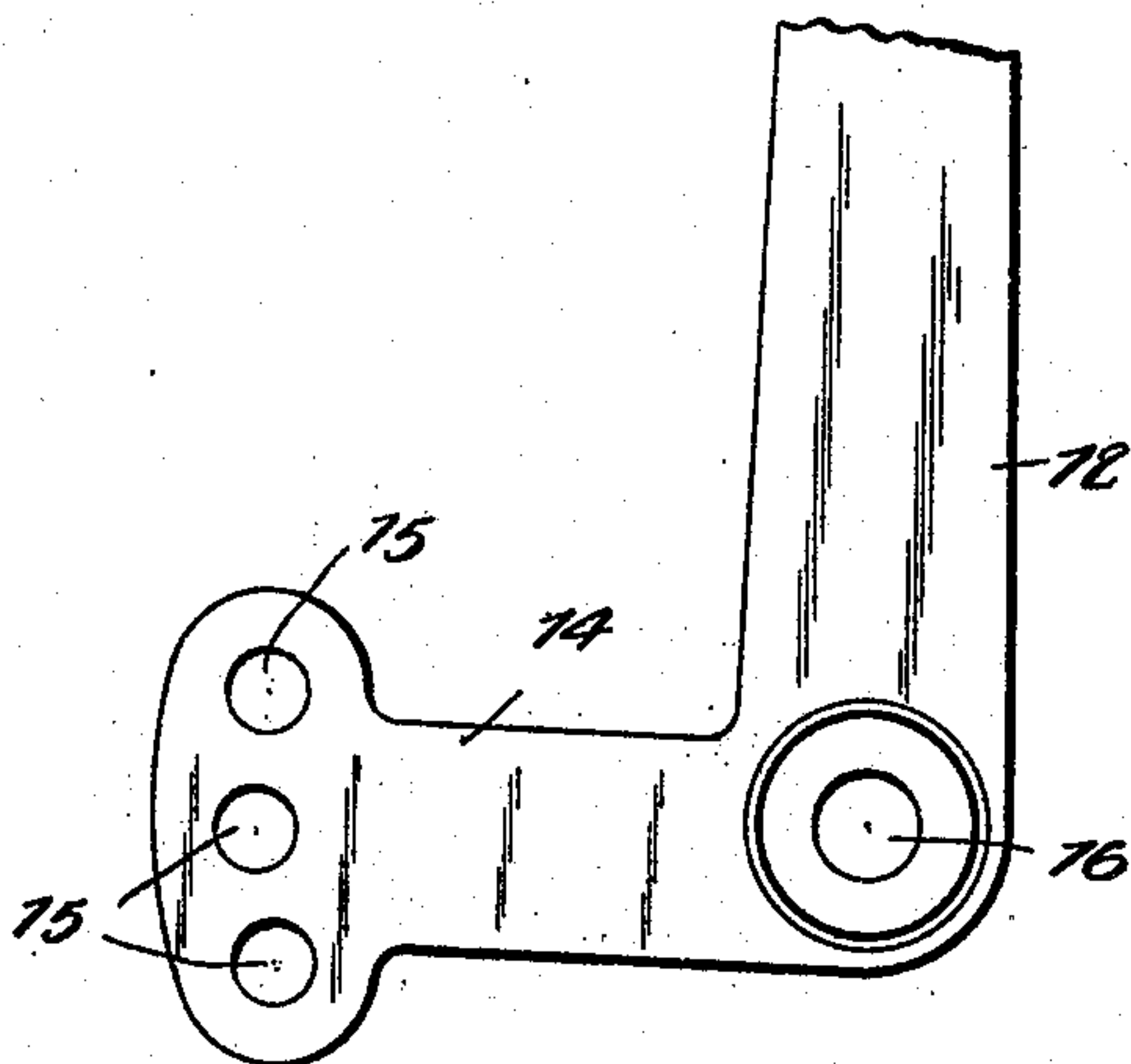


Fig. 6.



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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR WHEAT-BINDERS.

No. 923,676.

Specification of Letters Patent.

Patented June 1, 1909.

Application filed May 22, 1908. Serial No. 434,433.

To all whom it may concern:

Be it known that I, STEPHEN J. MAIXNER, citizen of the United States, residing at Rozel, in the county of Pawnee and State of Kansas, have invented certain new and useful Improvements in Attachments for Wheat-Binders, of which the following is a specification.

This invention relates to attachments for wheat or other binders, and is especially designed to provide means for a more efficient handling of wheat binders under difficult conditions.

One of the objects of the invention is to provide a device for enabling the driver of a binder to be closer to the horses pulling the binder, so that he can direct their movements with greater ease, and be able to manipulate the mechanism of the binder so that the position of the binder may be varied with relation to the ground as conditions demand.

Another object of the invention is to provide a simple and efficient means for lowering and raising the reel carrying mechanism and to move the same horizontally.

Another object of the invention is to provide means for lowering and raising the seat or platform carrying the reel, which may or may not be adjustable.

Another object of the invention is to provide means for manipulating the bundle dumping mechanism of the binder operated by foot power.

With these and other objects in view the invention comprises certain novel constructions, combinations and arrangement of parts as will be hereinafter more fully described and claimed.

In the accompanying drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a side elevation of my invention taken from the opposite side to Fig. 1. Fig. 3 is a front elevation of my invention. Fig. 4 is a detail view of a reel operating mechanism. Fig. 5 is a detail view of the binder operating mechanism. Fig. 6 is a detail view of a tilting lever, disclosing means for adjusting the same. Fig. 7 is a detail view disclosing means for mounting the tilting lever in position.

Referring to the drawing by numerals, 1 indicates a tongue to which is connected a supporting wheel 2 by means of a pivoted support 3. At the rear end of the tongue standards 4—4 are pivotally secured at 5 thereto. A pair of traction wheels 6—6 are

mounted upon a shaft 7 which in turn is journaled to a cross bar 8 connected with the standard 4. One of the wheels 6—6 is provided with a sprocket 9 for driving a chain 61 and the various mechanism connected therewith. The standards 4—4 are provided with a cross bar which, together with the standards 4—4 comprises a supporting frame for the wheel carrying mechanism, seat, and the binder supporting mechanism. The standards 4—4 and cross bar 10 are provided with a brace 11 projecting forwardly therefrom and adapted to serve as supporting means for the operating levers and seat 28.

Secured to the tongue 1 is a tilting lever 12 connected to the tongue by a suitable segmental rack 13 which is adapted to embrace the body of the tongue at its lower portion as shown in Fig. 7. Tilting lever 12 is preferably formed with a hooked shaped end 14 (Fig. 6) and is preferably provided with a plurality of pivot holes or apertures 15 formed therein for permitting adjustment of the lever. The lever 12 is further provided with an aperture 16 for accommodating a pin which is passed therethrough for connecting the lever to the tongue, and the segmental rack 13, the handle 17 being provided at the upper end of the lever for permitting easy manipulation of the lever and the withdrawal of pawl 19 which is adapted to engage the segmental rack 13. The handle or grip 17 is connected to the pawl 19 by means of a rod 20, rod 20 being connected with the grip 17 by means of a pivot pin 21. Secured to the hook shaped end of tilting lever 12 is a link 22 which in turn is pivotally mounted at 23 to the brace 11 so that when lever 12 is moved tongue 1 will be raised or lowered. Connected with tongue 1 is a suitable spring 24 which, by means of a guiding shaft 25, is adapted to assist lever 12 in tilting the frame in that the spring is adapted to sustain part of the weight of the tongue and to thereby lessen the amount of power needed to cause lever 12 to move the tongue. Pivotal member 22 embraces the shafting 25 and is adapted to slide thereon for preventing the movement of frame 4—4 beyond a certain distance, and the shafting 25 is further provided with washers or members 27 rigidly mounted thereon for holding the shafting in place.

A seat 28 is mounted on frame 4—4 near the front part thereof and is preferably held

in place by a support 29. The brace 11 has also secured to it a plurality of levers 30, 31, 32 and 33 arranged in proximity to seat 28 so as to be readily operatable therefrom.

5 Lever 30 is secured to the brace 11 at 34 and is provided with a link 36 pivotally secured thereto at 37 and link 36 in turn has connected to it at 38 a pivotal member 39 which is connected to a member 40 (Fig. 3) which in

10 turn is secured to a frame or cross bar 41 at 42 and 43. Member 40 is secured to a vertical member 44 which engages link 45 and is pivotally connected at 46 to a reel supporting bar 47. In operation the lever 30

15 is adapted to raise and lower the reel and is provided with means for adjustment consisting of a segmental rack 48 mounted upon the seat brace 11 by a bar 49. Lever 31 is supported on the seat brace by means of bar

20 49 and is provided with a segmental rack 50 (Fig. 3) which is engaged by pawl 51 which in turn is connected to the handle 53 of lever 31 by rod 52. Lever 31 is provided with a link 54 secured thereto at 55 which engages

25 vertical member 56 pivotally connected with reel supporting bar 47. The purpose of lever 31 is to move horizontally the reel relative to the seat. The bar 47 has journaled to it a reel carrying shaft 57 adapted to carry

30 a reel 58 which is preferably provided with a bearing sleeve 59. The bar 45 is further provided with a shaft bracing means or arm 60. (Fig. 3). For the purpose of operating the reel I have shown a sprocket chain 61

35 adapted to engage sprocket 9, sprocket wheel 62 mounted upon the shaft 57 and a sprocket wheel 63 mounted on the upright bar 56, which is also provided with a second sprocket wheel 64 mounted thereon. It

40 will thus be seen that the chain 61 encircles sprocket 9, engages sprocket 63, sprocket 62 and sprocket 64, and that the adjustment of the reel by means of levers 30 and 31 does not interfere with the operation of chain 61.

45 This feature of my invention, will of course, be varied to suit the various binders with which I desire to connect my mechanism, and may even be dispensed with, without departing from the spirit of my invention.

50 The seat brace 11 is further provided with a lever 33 for manipulating the binder mechanism for varying the sizes of the bundles, and is secured to the platform or brace 11 by supporting means 65 (Fig. 2), and is provided

55 with a bent arm 66 secured thereto, and the bent arm is pivotally connected with a binder engaging rod or bar 67 at 68. The lever 33 is further provided with a segmental rack 68' mounted on the platform or brace 11, and a

60 pawl 69 adapted to engage segmental rack 68', which is connected with handle or grip 71 by means of a connecting rod 70. The platform or brace 11 is further provided with a

65 foot operating lever 32 (Figs. 2 and 5) provided with a foot rest 72, and a pawl 73

adapted to engage a segmental rack 74. The lever 32 is preferably journaled at 75 to the brace 11 and extends therethrough, so as to form a bent end portion 76 which engages a link 77 and a bent arm 78 for operating the bundle dumping mechanism of the binder. 70

It will thus be seen that my invention enables the driver of a binder to be in more direct relation with the horses pulling the binder over the field, and provides improved 75 means for tilting the platform, operating the bundle dumping mechanism of the binder, means for varying the size of the bundles, and a system of levers for operating the reel so that the same may be moved either ver- 80 tically or horizontally, and it is evident that my invention can be applied with such variations as is necessary to any of the well known makes of binders, and particularly wheat binders. 85

When it is desired to adjust or change the sweep of the tilting lever 12, link 22 is pivotally connected with it at a different aperture formed in the hook shaped end portion 14, and lever 12 may or may not be provided 90 with a segmental rack, and any pawl for engaging the same. The pivot connections of the tongue 1 and the standards 4—4 may also be varied and suitable pivotal connections consisting of properly formed castings 95 may be substituted for the connections shown in the drawings.

What I claim and desire to secure by Letters Patent is:—

1. In a device of the class described, a 100 tongue, a platform pivotally connected with the tongue, a tilting lever formed with a hooked shaped portion mounted on the tongue, a link adapted to pivotally engage the hooked shaped end portion of the tilting 105 lever pivotally connected with the platform, and means for adjusting the link relative to the lever.

2. In a device of the class described, a 110 tongue, a platform pivotally connected with said tongue, a tilting lever mounted on said tongue and formed with a hooked shaped end portion, a link adapted to engage the hook shaped end portion and engage the platform frame whereby when said tilting 115 lever is moved strain will be brought to bear on said link for raising said tongue, and yielding means for assisting said tilting lever in moving said tongue.

3. In a device of the character described, 120 a tongue, a platform pivotally connected with the tongue, a tilting lever mounted on the tongue, and a link engaging one end of the tilting lever and also engaging said plat- 125 form frame whereby movement of said lever will bring strain on said link and at the same time move said tongue.

4. In a device of the class described, a 130 tongue, a frame pivotally mounted on the tongue, a tilting lever mounted on the

tongue, a link adapted to pivotally engage the tilting lever and frame, means for adjusting the pivot connection of the link and tilting lever, and a spring secured to the
5 tongue provided with a rod extending there-through, said rod being secured to the frame for assisting the tilting of the frame.

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

STEPHEN J. MAIXNER.

Witnesses:

W. L. SCHAFER,
IRENE SCHAFER.