

No. 862,886.

PATENTED AUG. 13, 1907.

T. L. CURTRIGHT.
WOOD SAWING MACHINE.
APPLICATION FILED DEC. 26, 1906.

2 SHEETS—SHEET 1.

FIG. 1

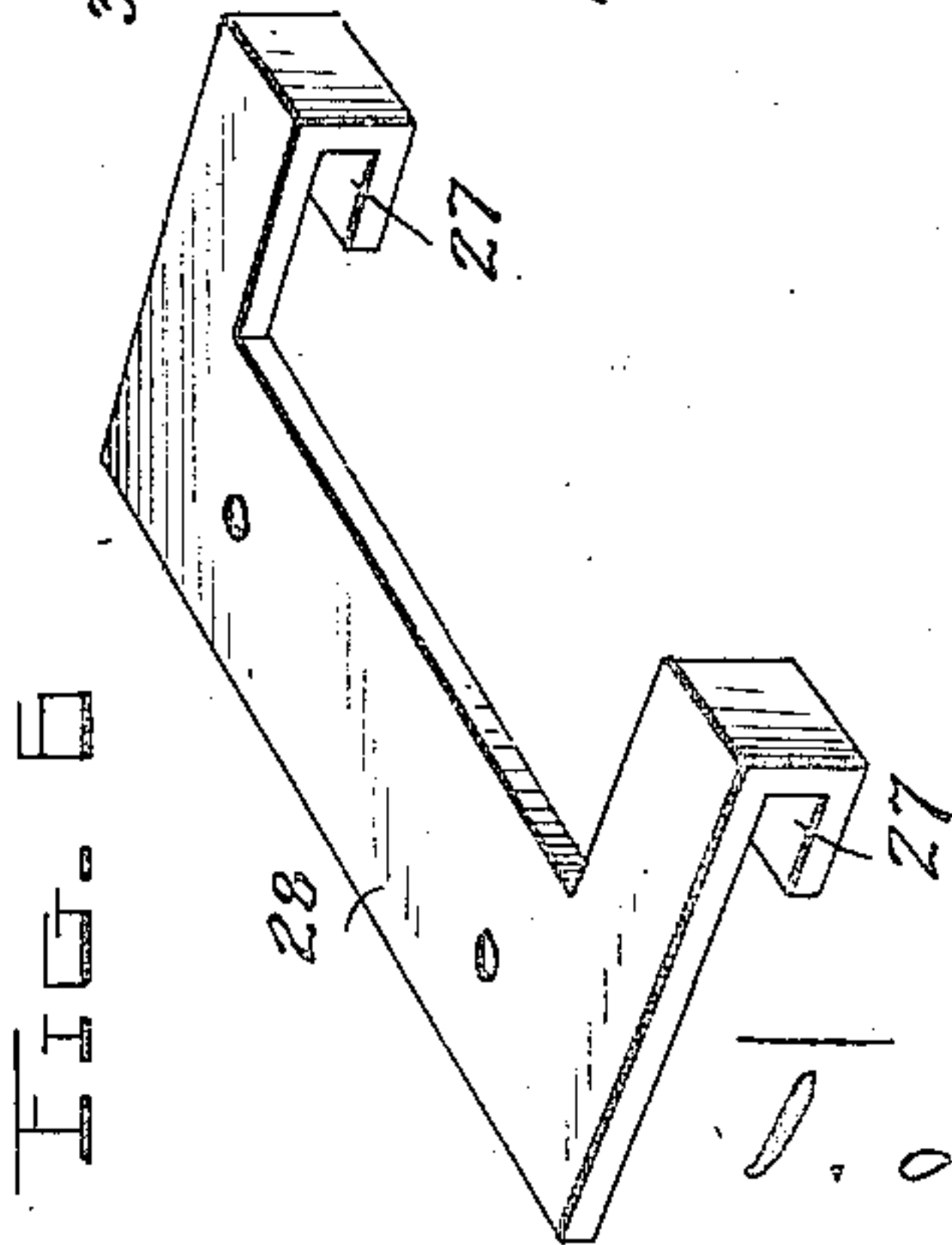
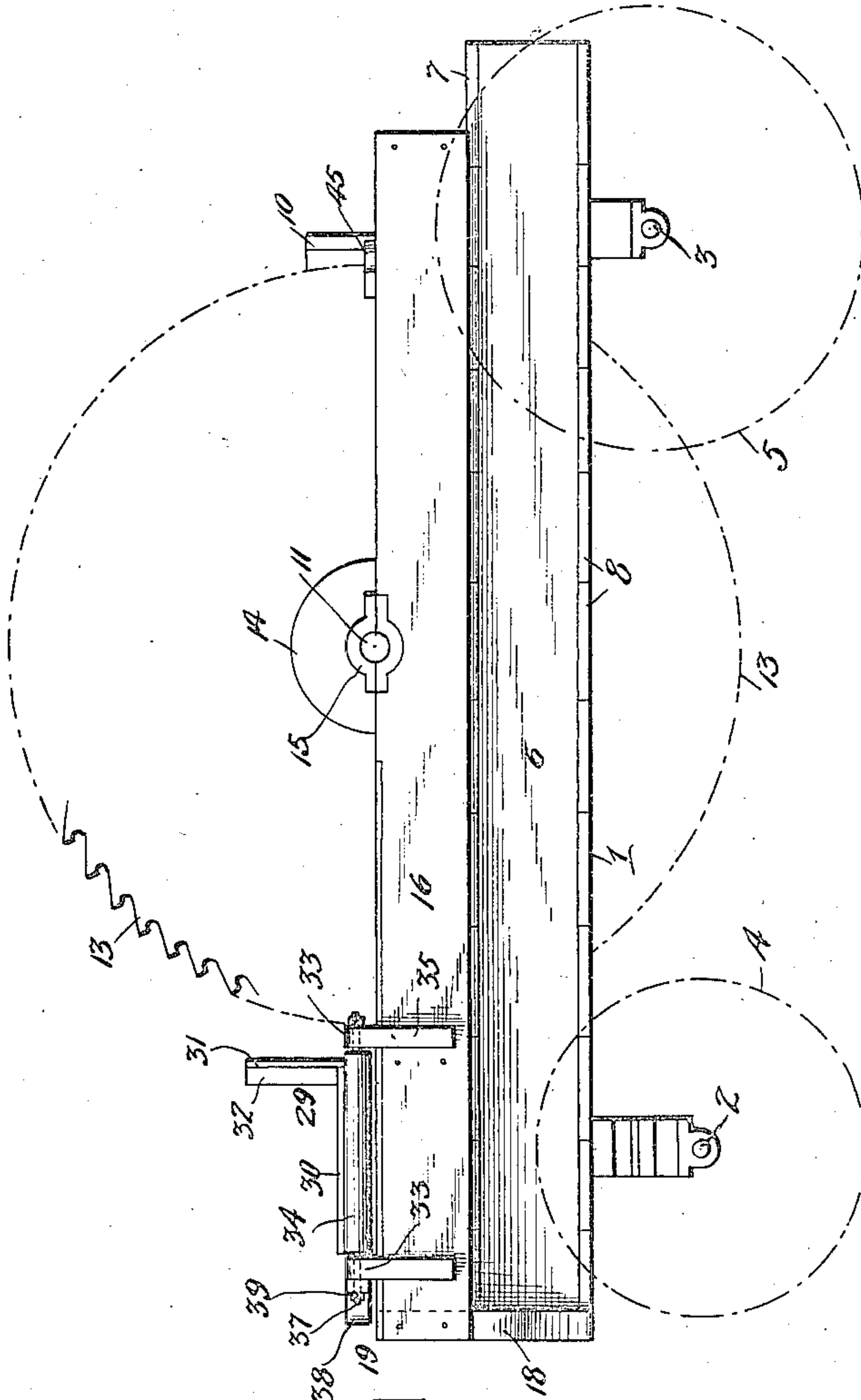


FIG. 2

Witnesses

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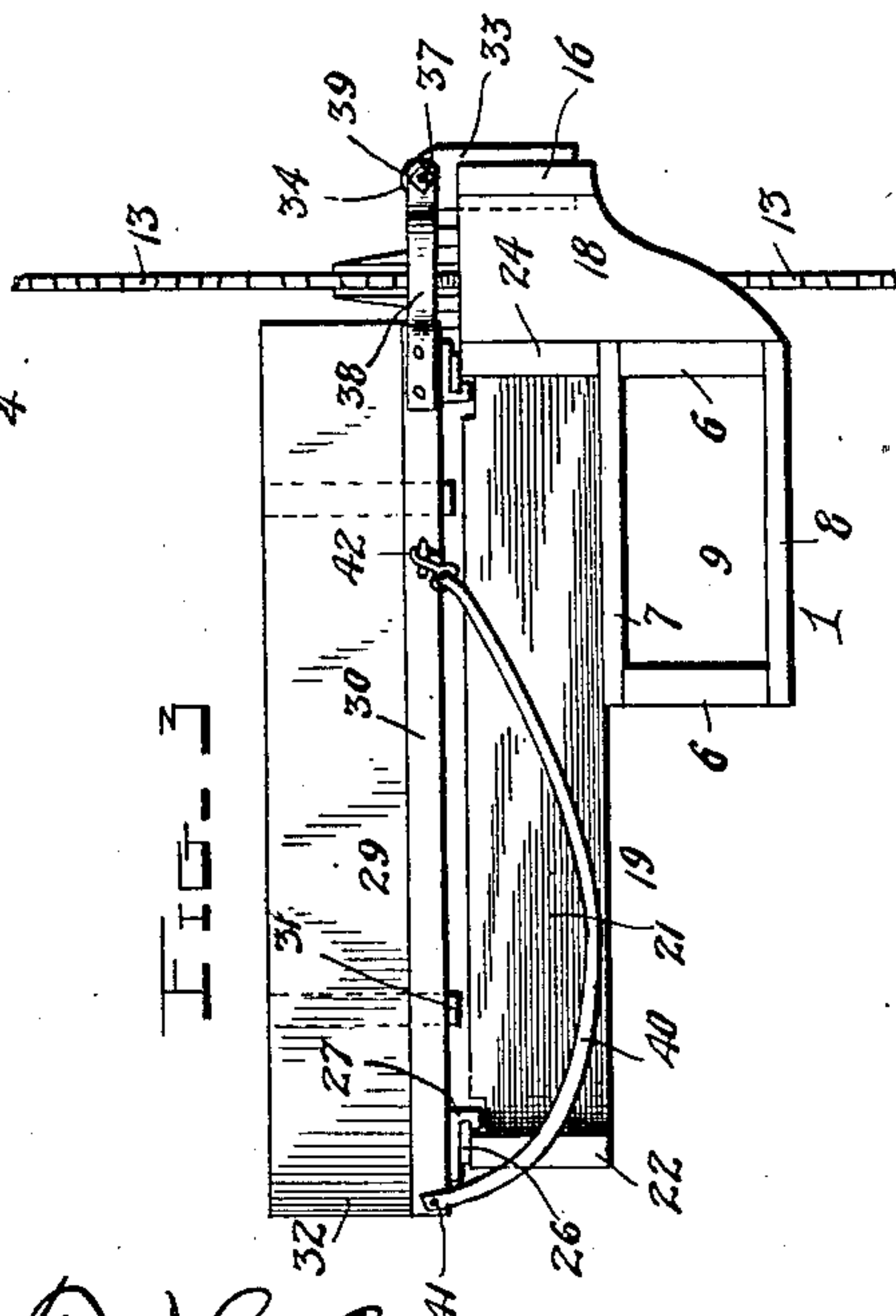
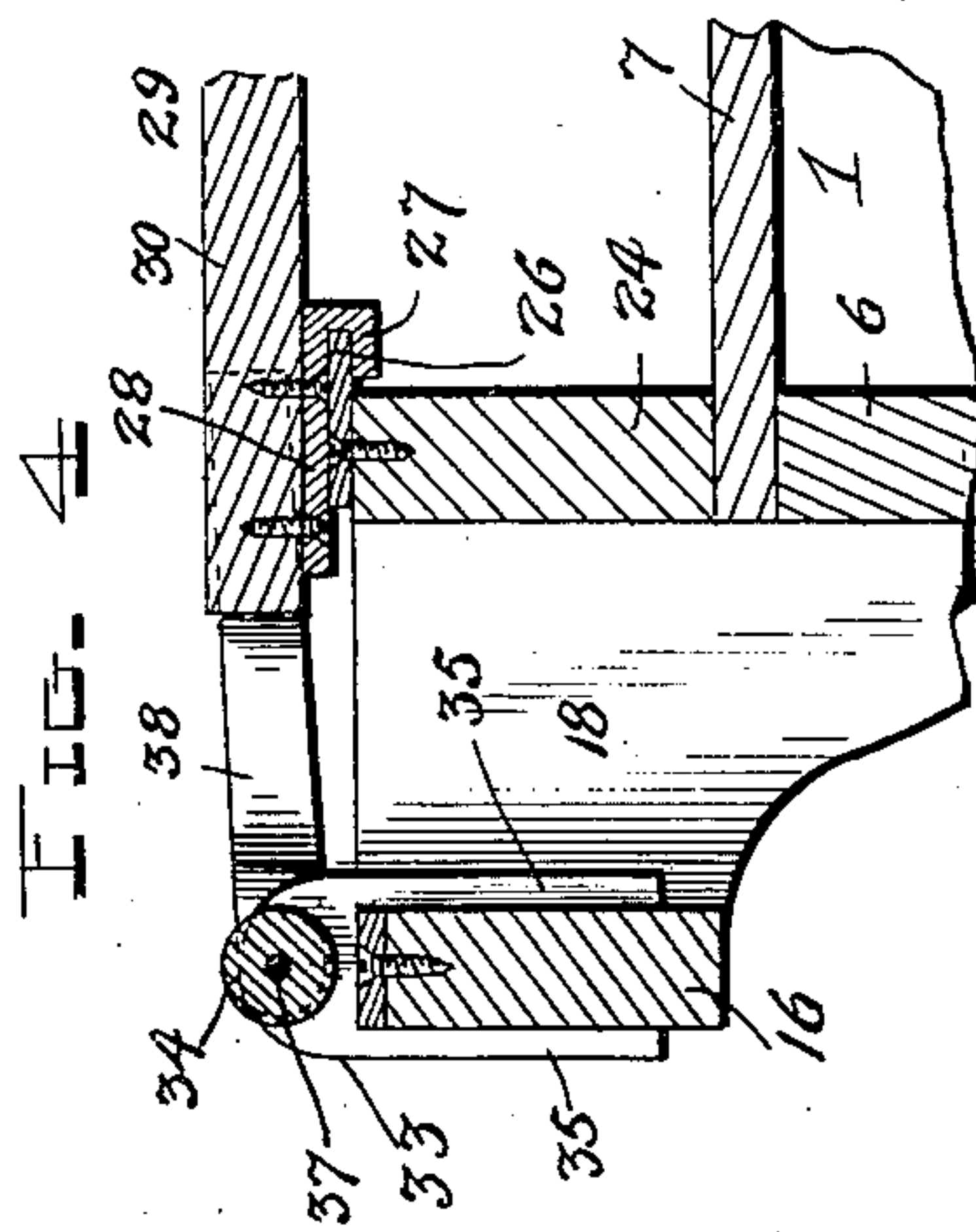
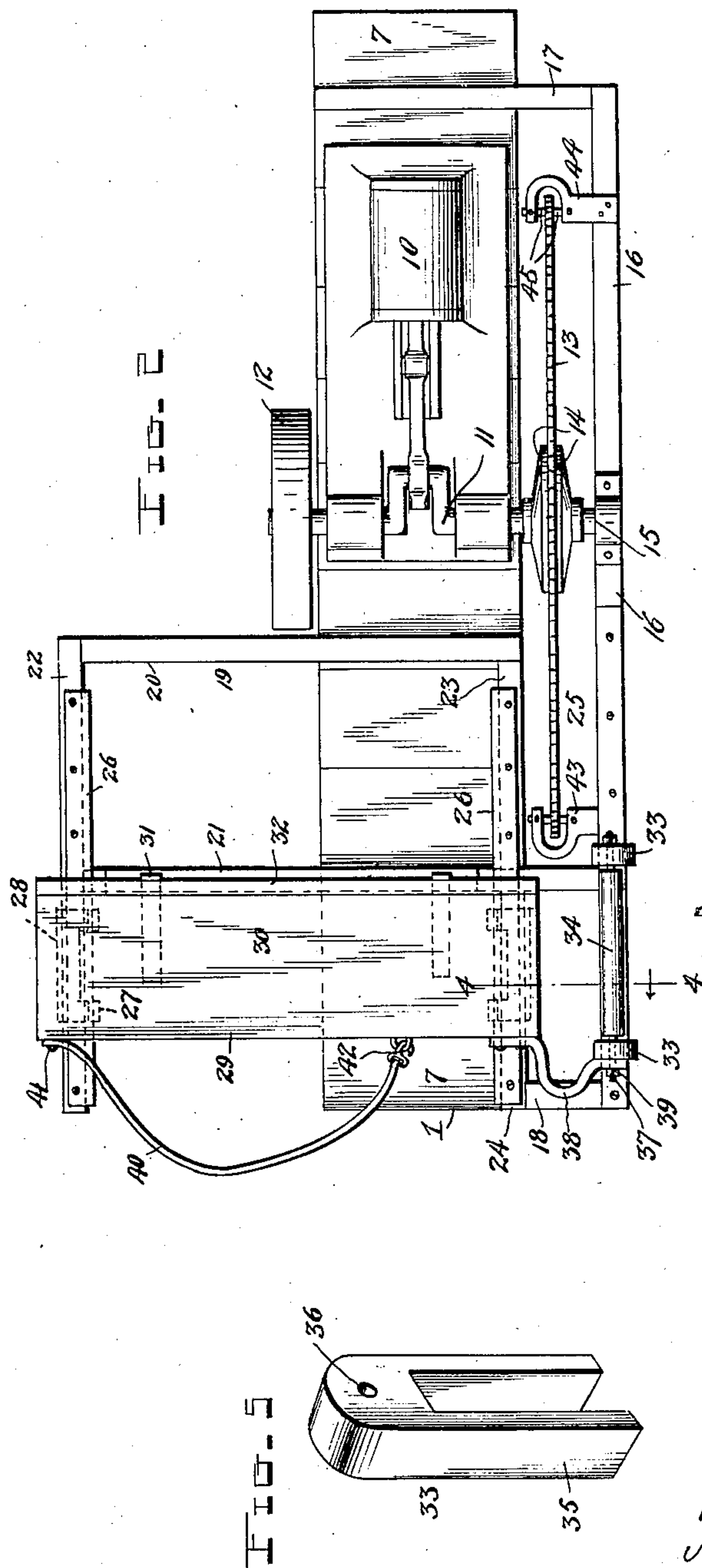
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2 SHEETS—SHEET 2.



Witnesses
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UNITED STATES PATENT OFFICE.

TRAVIS LEE CURTRIGHT, OF SHELBY, MISSOURI.

WOOD-SAWING MACHINE.

No. 862,886.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed December 28, 1906. Serial No. 349,549.

To all whom it may concern:

Be it known that I, TRAVIS LEE CURTRIGHT, a citizen of the United States, residing at Shelby, in the county of Shelby and State of Missouri, have invented certain new and useful Improvements in Wood-Sawing Machines, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in wood sawing machines and consists in the novel construction, combination and arrangement of parts hereinafter described and claimed.

The object of the invention is to provide a simple and practical power saw which is especially adapted for use on a farm for cutting cord wood, fence posts, and the like.

The above and other objects are accomplished by the improved construction illustrated in the accompanying drawings in which,

Figure 1 is a side elevation of my improved wood sawing machine; Fig. 2 is a top plan view of the same; Fig. 3 is an elevation of that end of the truck or body at which the work carriage is located; Fig. 4 is a detail section on an enlarged scale, taken on the plane indicated by the line 4-4 in Fig. 2; Fig. 5 is a perspective view of one of the sliding bearings; and Fig. 6 is a similar view of one of the guides on the work carriage.

My improved wood sawing machine is preferably made portable by making its body or main frame 1 in the form of a truck or wagon body. Any suitable running gear may be provided for the body 1 and if desired, its running gear may be connected to the engine which operates the saw and the machine thus made self-propelling, but as illustrated in Fig. 1, front and rear axles 2, 3, are provided and have mounted upon them front and rear wheels 4, 5, so that the machine may be readily transported. The body 1 is of rectangular form, being preferably made of two longitudinal or side beams 6 connected at their top and bottom edges by cross boards 7, 8, so that in the body 1 is formed a chamber 9 in which may be placed tools, implements, water and oil tanks, etc.

Mounted upon the top or flooring of the body formed by the boards 7 is an engine or motor 10 of any suitable description. I preferably employ a gasoline engine and arrange it so that its crank shaft 11 is disposed transversely of the body 1, at about its center. Upon one end of the shaft 11 is the usual fly wheel 12 and upon its front end I secure a circular cross-cut saw 13. The end of the shaft projects through the saw and the latter is secured thereon by two clamping disks 14. The projecting end of the shaft is mounted in a bearing 15 provided upon a longitudinally extending beam or support 16 arranged parallel with and slightly above one side of the body 1.

The beam 16 has its rear end supported by a cross beam 17 secured upon the top of the body 1 and its front

end supported by a brace or bracket 18 secured upon one side of the body at its front end and upon one side of a carriage supporting frame 19. The latter consists of two parallel transversely extending beams 20, 21 connected at their outer ends, which project a suitable distance to one side of the body 1, by a longitudinal end beam 22 and at their inner ends by two longitudinally extending and alined beams 23, 24. The beam 23 is arranged between the inner end of the beam 20 and the rear face of the beam 21, the inner end of which latter projects across the space 25 between the beam 16 and the side of the body 1 and has its end secured to the beam 16, as clearly shown in Fig. 1. The beam 24 has its front end secured to the bracket 18 and its rear end secured to the front face of the beam 21.

Upon the upper edges of the beam 22 and the two alining beams 23, 24 are secured metal plates 26, the inner edges of which project beyond said beams and are engaged by the bent or hook-shaped ends 27, of metal plates 28 secured upon the bottom on the work carriage 29. The plates 26 thus serve as tracks upon which the guides 27 may slide, so that the carriage may be moved longitudinally toward and from the saw.

The carriage 29 consists of a horizontally disposed board 30 on the bottom of which the guides 27 are secured, and to the rear edge of which is secured, by right-angular brackets or cleats 31, an upright or vertical board 32.

Slidably mounted upon the beam 16 are bearing slides 33 which carry between them a roller 34 by means of which the work to be sawed may be readily placed upon the carriage. The slides 33 are in the form of U-shaped blocks, the parallel arms 35 of which engage the opposite side faces of the beam 16 and in the upper ends of which are provided openings 36 for the shaft or journal 37 of the roller 34. The slides 33 and the roller 34 are caused to move with the carriage 29 by providing a bracket 38 which latter has one of its ends secured to the carriage and its other end engaged with one of the slides 33 and apertured to receive the projecting end of the shaft 37 on which it is retained by a nut 39. By thus connecting the carriage and one of the slides the roller 34 is caused to move back and forth with the carriage and always be in position to receive a log, post or other piece of wood which by means of said roller may be readily pushed up upon the carriage. The carriage is shifted back and forth manually and to facilitate this operation, a strap or flexible element 40 is attached to the front edge of the carriage and is adapted to be passed around the waist of the operator. One end of the strap is permanently attached to one end of the carriage, as at 41, and the other end carries a hook 42 which may be readily engaged with and disengaged from a staple or eye upon the carriage adjacent to its other end. The saw 13 is of comparatively larger diameter and to prevent it from readily

bending or bowing, I preferably provide upon the top and bottom edges of the beam 16 guides 44, 43. Each of the latter has a U-shaped inner end which surrounds the edge of the saw and which contains wooden studs or pins 45 which engage the opposite faces of the saw and are adjustably held in position by set screws or the like.

From the foregoing description taken in connection with the accompanying drawings, it is thought that the construction, operation and advantages of the invention will be readily understood without a more extended explanation.

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

1. A wood sawing machine comprising a main frame, a supporting beam spaced from one side of said frame and extending parallel therewith, bearings upon said frame and said beam, a saw arbor mounted in said bearings, a circular saw upon said arbor arranged in the space between said frame and said beam, guides upon said main frame, a work carriage slidable upon said guides toward and from the saw, inverted U-shaped bearing blocks slidable upon the upper edge of said beam and having their parallel depending arms slidably engaged with the side faces of said beam, a shaft connecting said bearing blocks and extending longitudinally above the upper edge of said beam, a roller mounted upon said shaft and disposed opposite one end of the carriage and a curved bracket secured at one of its ends to said carriage and at its opposite end to a projecting end of said shaft and the ad-

jacent bearing block, whereby said bearing blocks and said roller will be caused to move with the carriage, substantially as shown and for the purpose set forth.

2. A wood sawing machine comprising a hollow rectangular body consisting of longitudinal side beams connected at their upper and lower edges by cross boards, an engine mounted upon the top of the body and having one end of its crank shaft projecting beyond one side of said body, a circular saw upon the projecting end of said crank shaft, transverse beams arranged upon the top of the body and projecting upon opposite sides of the same, a long longitudinal beam mounted upon the projecting ends of said cross beams on one side of the body and arranged parallel with said side, short longitudinal beams connecting certain of said transverse beams, tracks upon said short longitudinal beams, a carriage, guides upon the bottom of said carriage for sliding engagement with said tracks, a bearing upon said long longitudinal beam for the projecting end of the shaft of the saw, inverted U-shaped bearing blocks slidably mounted upon the upper edge of said long longitudinal beam, a rod or shaft connecting the upper ends of said bearing blocks, a roller mounted upon the last mentioned shaft and arranged at one end of the carriage and above the upper edge of said longitudinal beam, and a curved brace secured at one of its ends to said carriage and at its other end to the last mentioned shaft and the adjacent bearing block, substantially as shown and for the purposes set forth.

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

TRAVIS LEE CURTRIGHT.

Witnesses:

J. H. WOOD,

W. H. GILLISPIE.