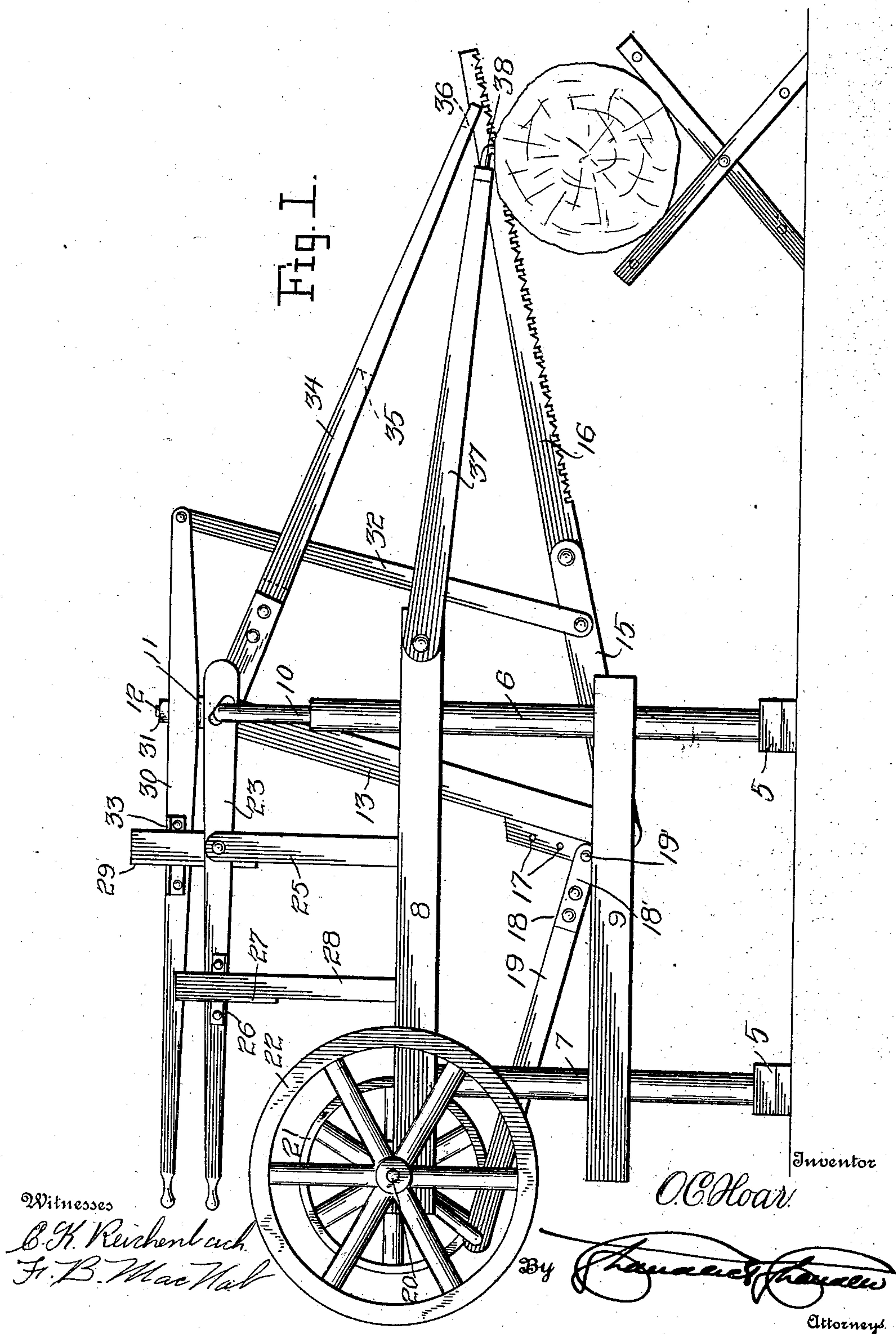


No. 840,330.

PATENTED JAN. 1, 1907.

O. C. HOAR.
SAWING MACHINE.
APPLICATION FILED AUG. 10, 1906.

3 SHEETS—SHEET 1.



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3 SHEETS—SHEET 2.

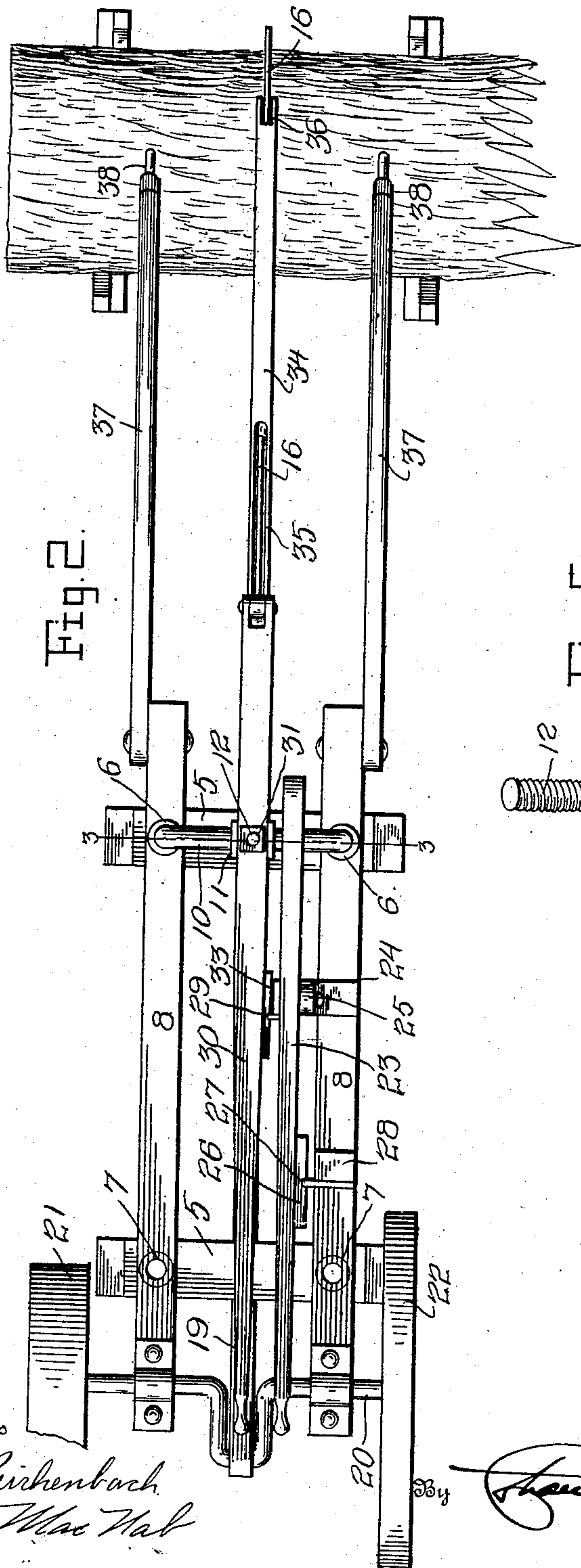


Fig. 2.

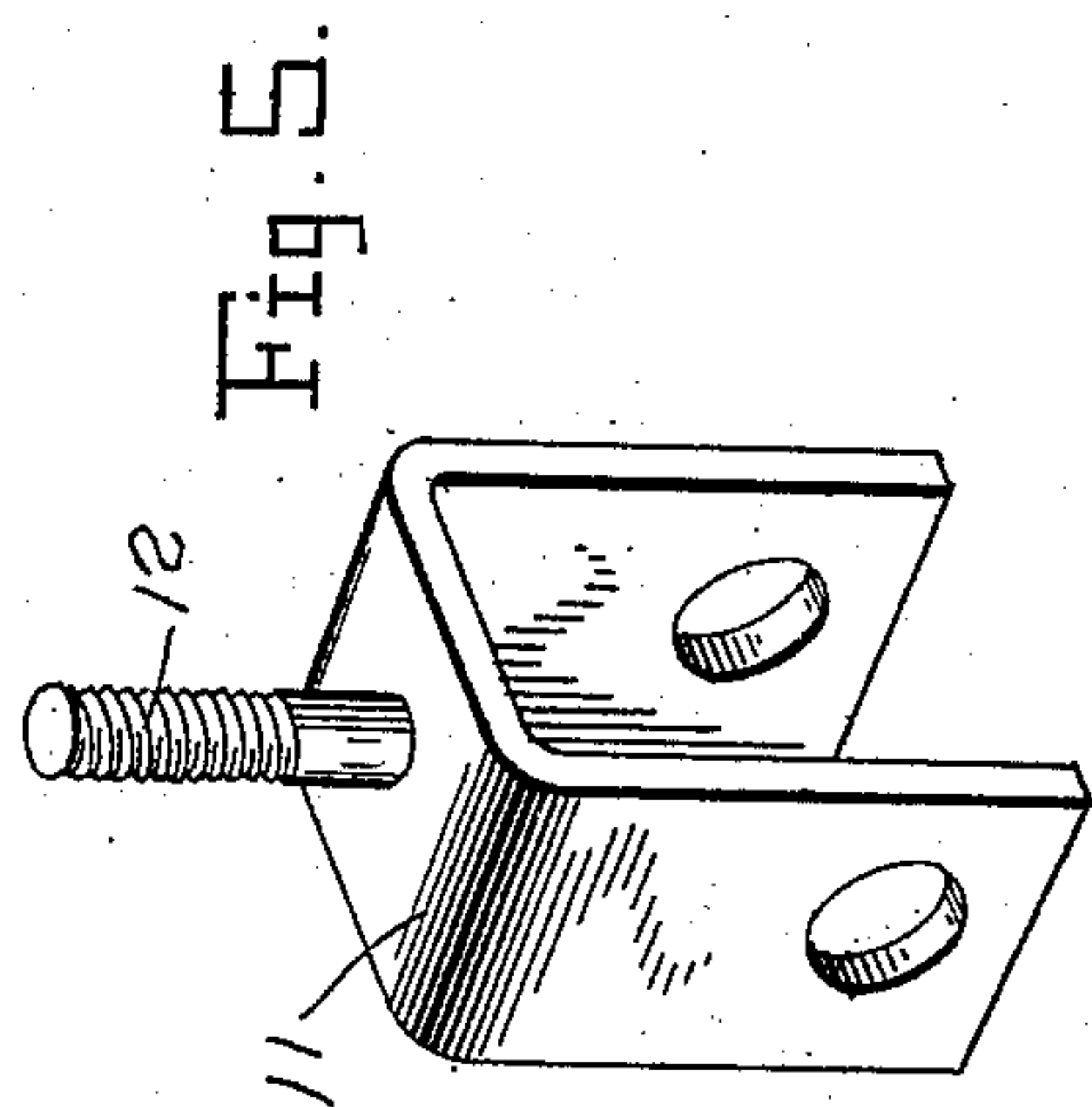


Fig. 5.

Witnesses

G. H. Reichenbach
F. B. Mac Nab

Inventor

O. C. Hoar

Shawmut Shawmut

Attorneys

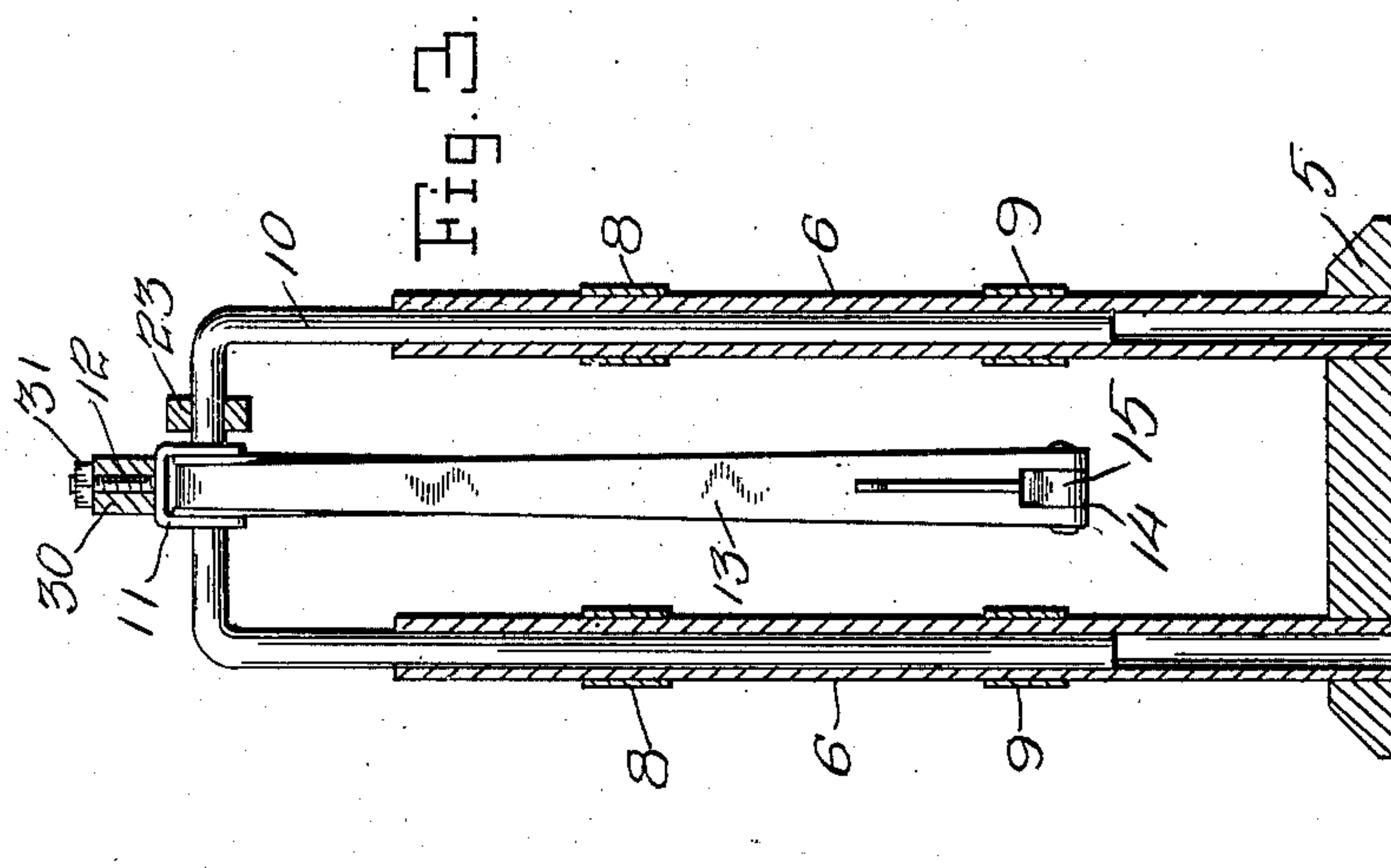
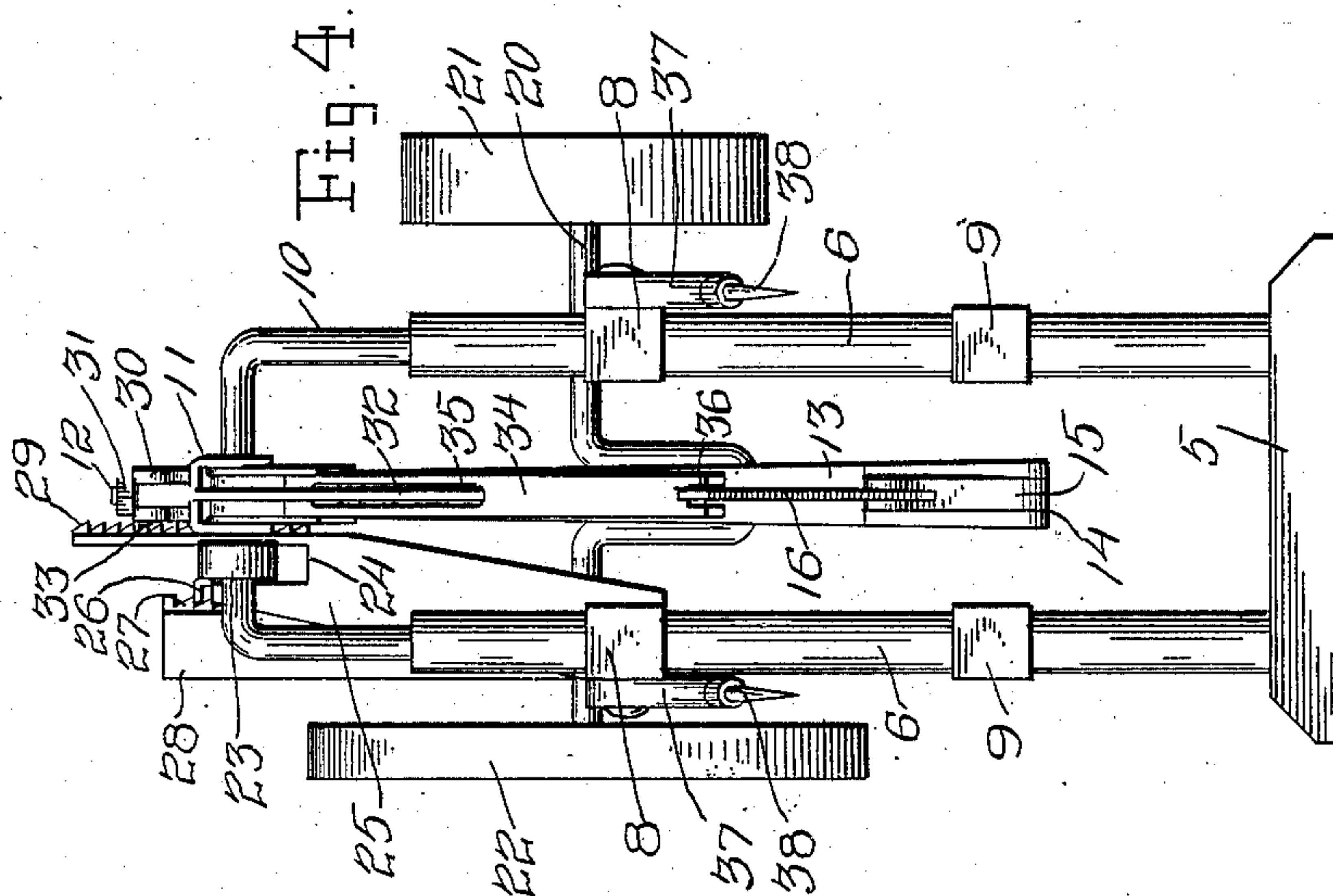
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O. C. HOAR.
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3 SHEETS—SHEET 3.



Witnesses

C. H. Reichenbach.
H. B. MacNab

Inventor

O. C. Hoar.

By

Thomson & Thomson

Attorneys

UNITED STATES PATENT OFFICE.

ORLANDA C. HOAR, OF VANATTA, OHIO.

SAWING-MACHINE.

No. 840,330.

Specification of Letters Patent.

Patented Jan. 1, 1907.

Application filed August 10, 1906. Serial No. 330,049.

To all whom it may concern:

Be it known that I, ORLANDA C. HOAR, a citizen of the United States, residing at Vanatta, in the county of Licking, State of Ohio, have invented certain new and useful Improvements in Sawing-Machines; and I do hereby 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 appertains to make and use the same.

This invention has reference to sawing-machines, the object comprising the construction of a machine of that type provided with means for vertically adjusting the position of the saw-carrier within the frame and for independently raising or lowering the position of the saw with reference to the saw-carrier, so that the saw may operate upon a log upon the ground or may be raised some distance thereabove.

To this end the invention comprises the construction, combination, and arrangement of parts, all as hereinafter fully described, specifically claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a sawing-machine constructed in accordance with this invention. Fig. 2 is a top plan view of Fig. 1. Fig. 3 is a transverse vertical section taken on the line 3 3 of Fig. 2. Fig. 4 is an end elevation. Fig. 5 is a detail view of the forked bracket.

Like parts are designated by similar reference-numerals in the several views.

Referring to the drawings, the frame of the machine is shown as comprising supporting-beams 5 5, and front and rear hollow standards 6 6 and 7 7, mounted upon beams 5 and connecting upper and lower side beams 8 8 and 9 9, respectively.

The front standards 6 are adapted to receive a U-shaped member 10, vertically movable therein; the depending arms of which enter the standards, as shown in Fig. 3. Secured to the top of member 10 is a forked bracket 11, having an upstanding threaded stem 12.

Pivotally mounted on member 10 between the ears of bracket 11 is a lever 13, the lower end of said lever being bifurcated, as at 14, to receive the rear end of a rod 15, to the front end of which the saw 16 is secured, the pivot-bolt upon which rod 15 swings passing through the ears formed by the bifurcation of lever 13.

Lever 13 is formed adjacent its bifurcated

end with a series of alining perforations 17 for adjusting the position of the pitman 19, to which said lever is connected, there being a metallic socket 18 secured to the inner end of the pitman and formed with a pair of spaced perforated ears 18', which extend on opposite sides of said lever, the pivot-bolt 19' passing through the perforated ears 18' and through one of the perforations 17 on lever 13.

Journaled in the rear ends of the upper side beams 8 is a crank-shaft 20, to the cranked portion of which the rear end of pitman 19 is secured. Said shaft is provided at opposite ends with a band-wheel 21 and a fly-wheel 22, said wheels being mounted exteriorly of said beams.

The position of the saw-carrier within the frame is adjusted by means of a lever 23, pivoted at its front end to the curved member 10 at one side of bracket 11, as shown in Fig. 2, said lever extending rearwardly of the machine-frame and passing through the bifurcated upper end 24 of an upright 25, mounted upon the upper face of one of the side beams 8. Lever 23 is provided with a catch 26, adapted for engagement with the teeth of a rack 27, secured to the rear face of a second upright 28, mounted on said side beam toward the rear end of the machine. A rack 29 is in like manner secured to the rear face of upright 25.

A movement in one direction or the other of lever 23 will consequently raise or lower the saw-carrier within the machine-frame, the frame being held in adjusted position by means of the engagement of catch 26 with the rack 27, the bifurcated portion of the front upright 25 serving as a guide for the movement of said lever.

The saw may be given a vertical movement independent of that of the carrier by means of a lever 30, secured to bracket 11, the stem 12 of said bracket passing through said lever and threaded, as shown, for the reception of a nut 31.

The front end of lever 30 is forked for the reception of one end of a rod 32, the lower end of which is enlarged and likewise forked, such forked portion straddling rod 15 and secured thereto. Secured to the upper face of lever 30 intermediate its ends is a catch 33, adapted for engagement with the teeth of rack 29 on the front upright 25, so that the lever may be retained in adjusted position when moved in one direction or the other.

As will be understood, a downward move-

ment of the free end of lever 30 will cause rod 15 and the saw 16, connected thereto, to move upwardly, while a reverse movement of said lever will in like manner lower said rod and saw.

The machine is further provided with a guide-lever 34, provided at one end with side plates, by means of which it is attached to member 10, and having an intermediate slot 35, through which rod 32 passes, the lower end of said lever being forked, as at 36, to permit the saw to travel between the ears formed thereby, and thus causing the saw to move in the same kerf. Secured to the lower ends of side beams 8 are arms 37, provided with hooks 38, adapted to engage the log and hold the same in place during the operation of the machine.

In the operation of the machine power is applied to the band-wheel through a belt (not shown) from any desired source, the rotation of the crank-shaft upon which the band-wheel is mounted causing a reciprocation of the saw through the medium of the pitman and its connection with the main lever of the saw-carrier.

The position of the saw-carrier within the frame may be adjusted to any desired extent by means of the lever 23, while the saw may be adjusted independently of the carrier through the operation of the lever 30. The carrier will be held in place during its adjustment by means of the depending arms of the U-shaped member 10, which fit in the respective front standards 6.

The operation of the machine will be understood from the foregoing, and further description thereof is deemed unnecessary.

What is claimed is—

1. In a sawing-machine, the combination with a frame including spaced front and rear hollow standards, and upper and lower con-

necting side beams; of a saw-carrier movable between said standards and provided with depending arms movable within the front standards; a saw connected with said carrier; reciprocating mechanism operatively connected with said carrier; an upright mounted upon one of the upper side beams; a lever pivotally mounted in said upright for adjusting the vertical position of said carrier with respect to the frame; a lever pivotally mounted on said carrier for independently adjusting the vertical position of the saw with respect to the carrier; and means for retaining said parts in adjusted position.

2. In a sawing-machine, the combination with a frame including spaced front and rear hollow standards, and upper and lower side beams; of a saw-carrier movable between said standards and including a member having depending arms movable within the front standards; a saw connected to said carrier; reciprocating mechanism operatively connected with said carrier; a pair of uprights mounted upon one of the upper side beams; racks secured to the rear faces of said uprights; a lever pivotally mounted in one of said uprights for adjusting the vertical position of said carrier within the frame; a catch secured to said lever for engagement with the rack on the other upright; and a lever pivoted to said armed member for independently adjusting the vertical position of the saw with respect to the carrier; and provided with a catch for engagement with the first-mentioned upright.

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

ORLANDA C. HOAR.

Witnesses:

S. B. MESSENGER,
DANIEL LAMSON.