

No. 610,200.

Patented Sept. 6, 1898.

O. B. PICKETT.

LAWN MOWER.

(Application filed Nov. 5, 1897.)

(No Model.)

Fig 1.

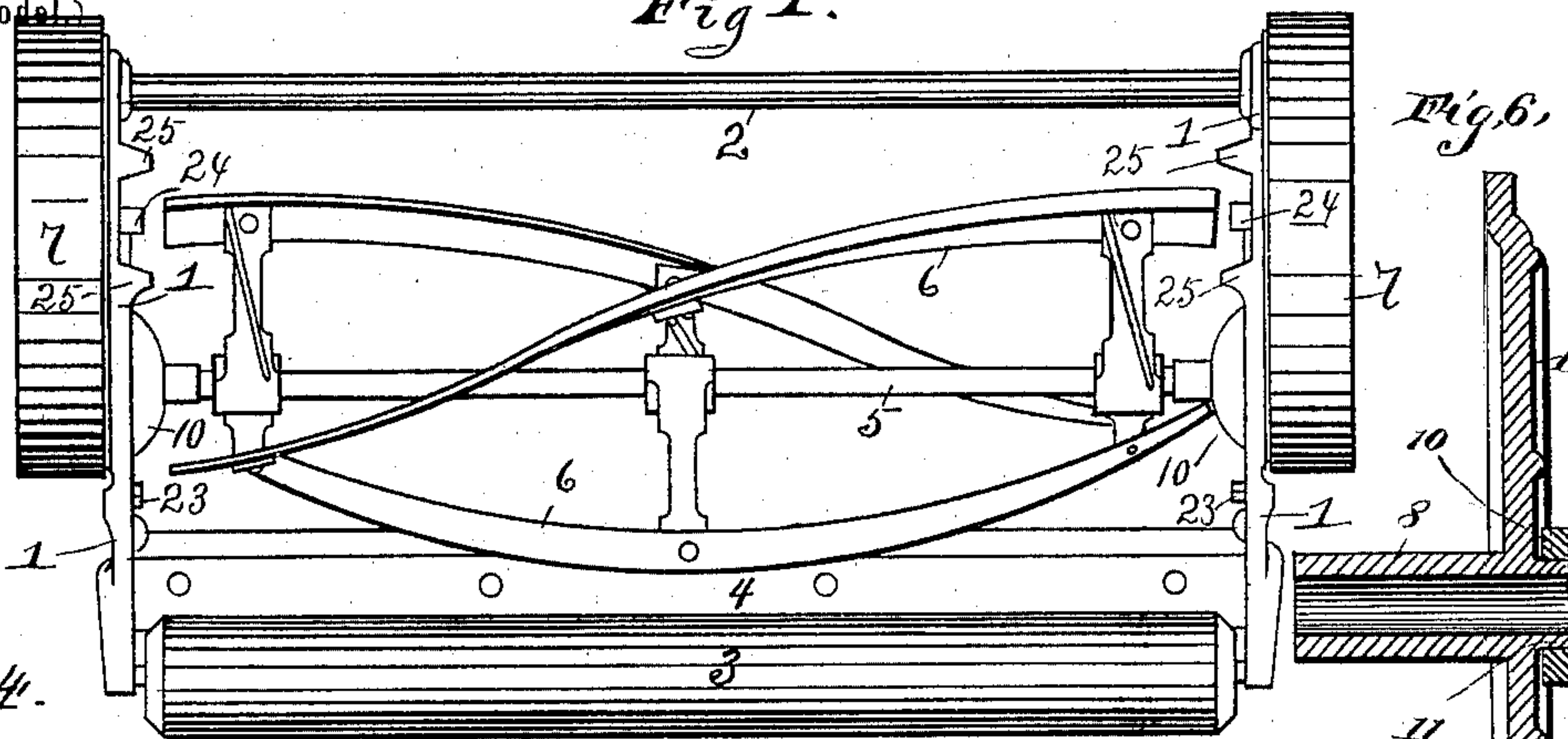


Fig 6.

Fig 4.

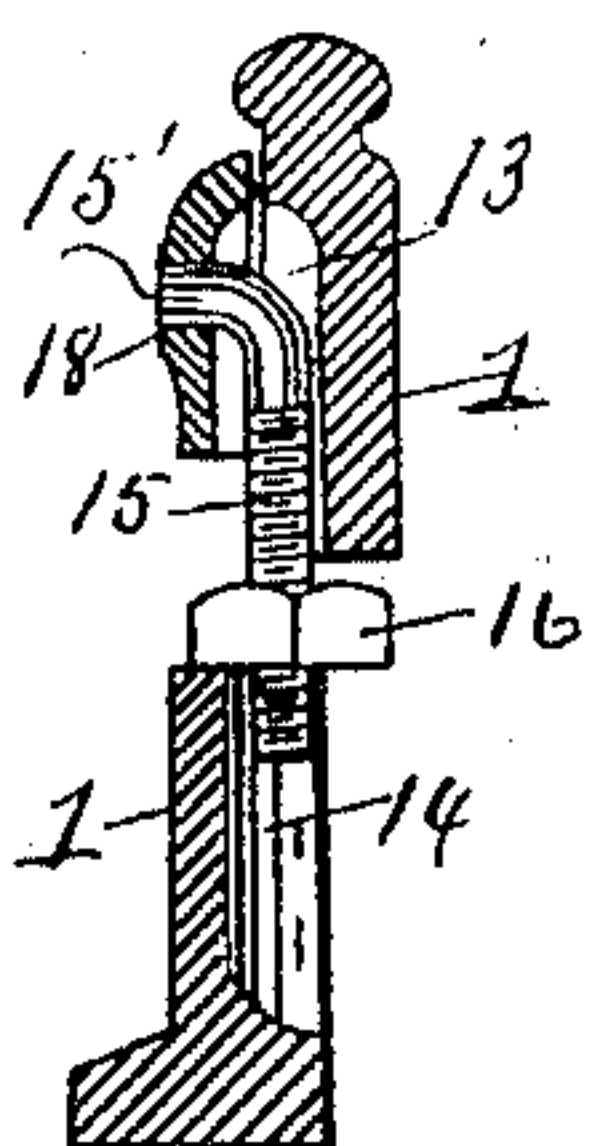


Fig 2.

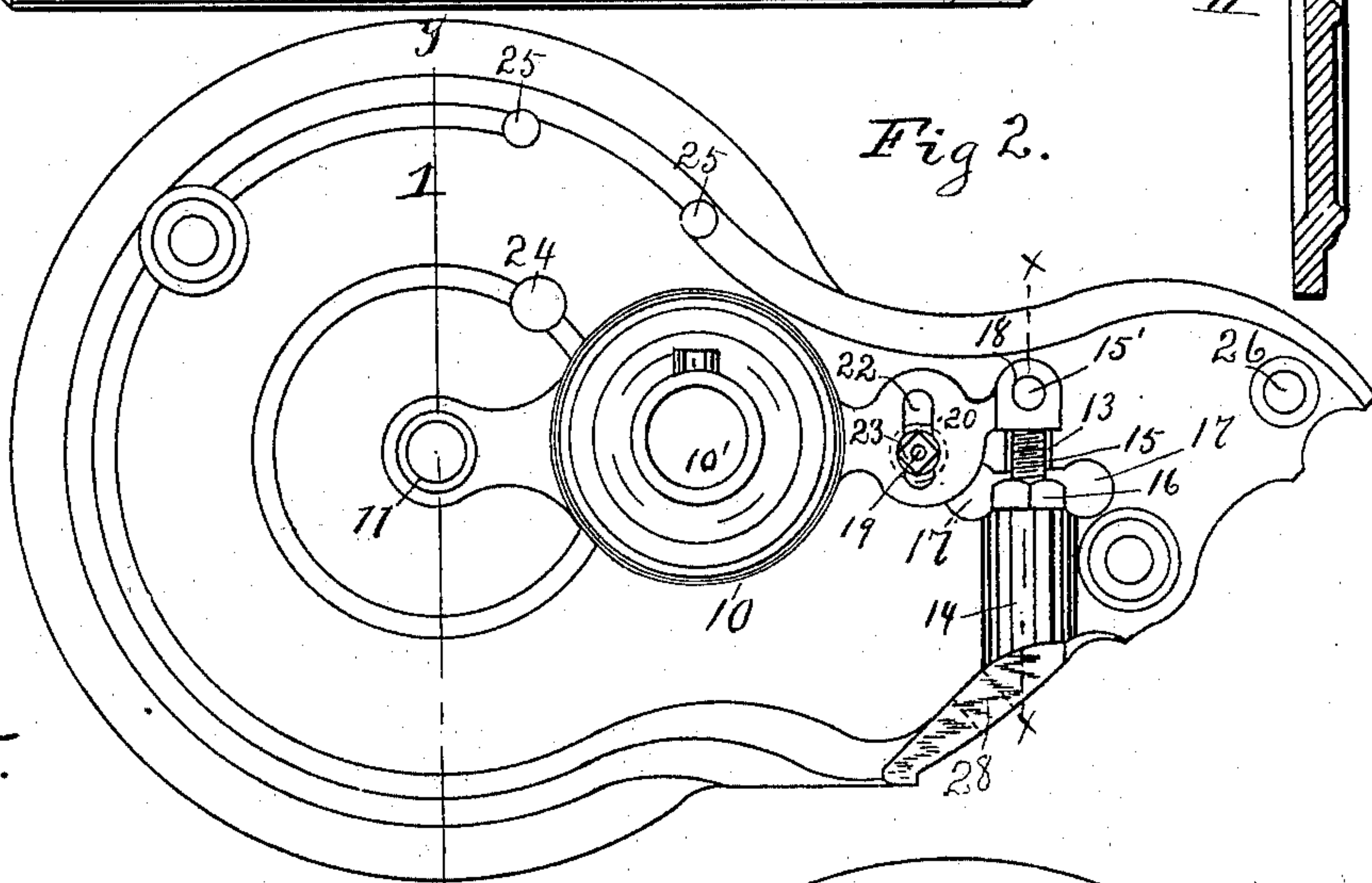


Fig 5.

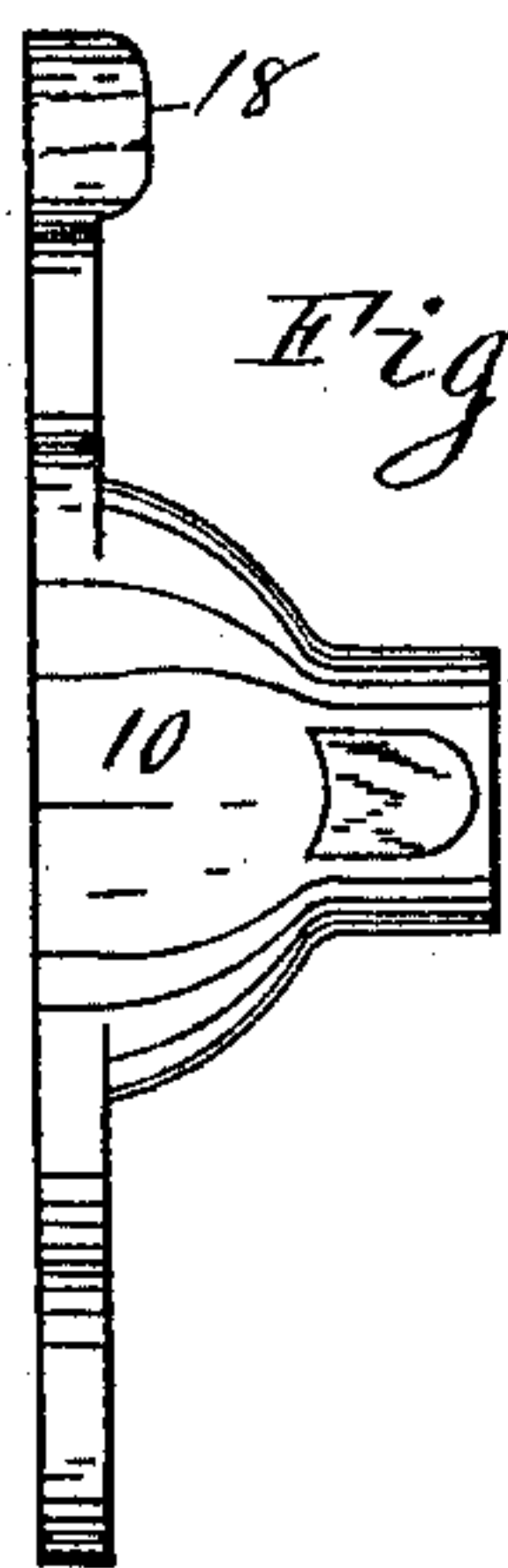
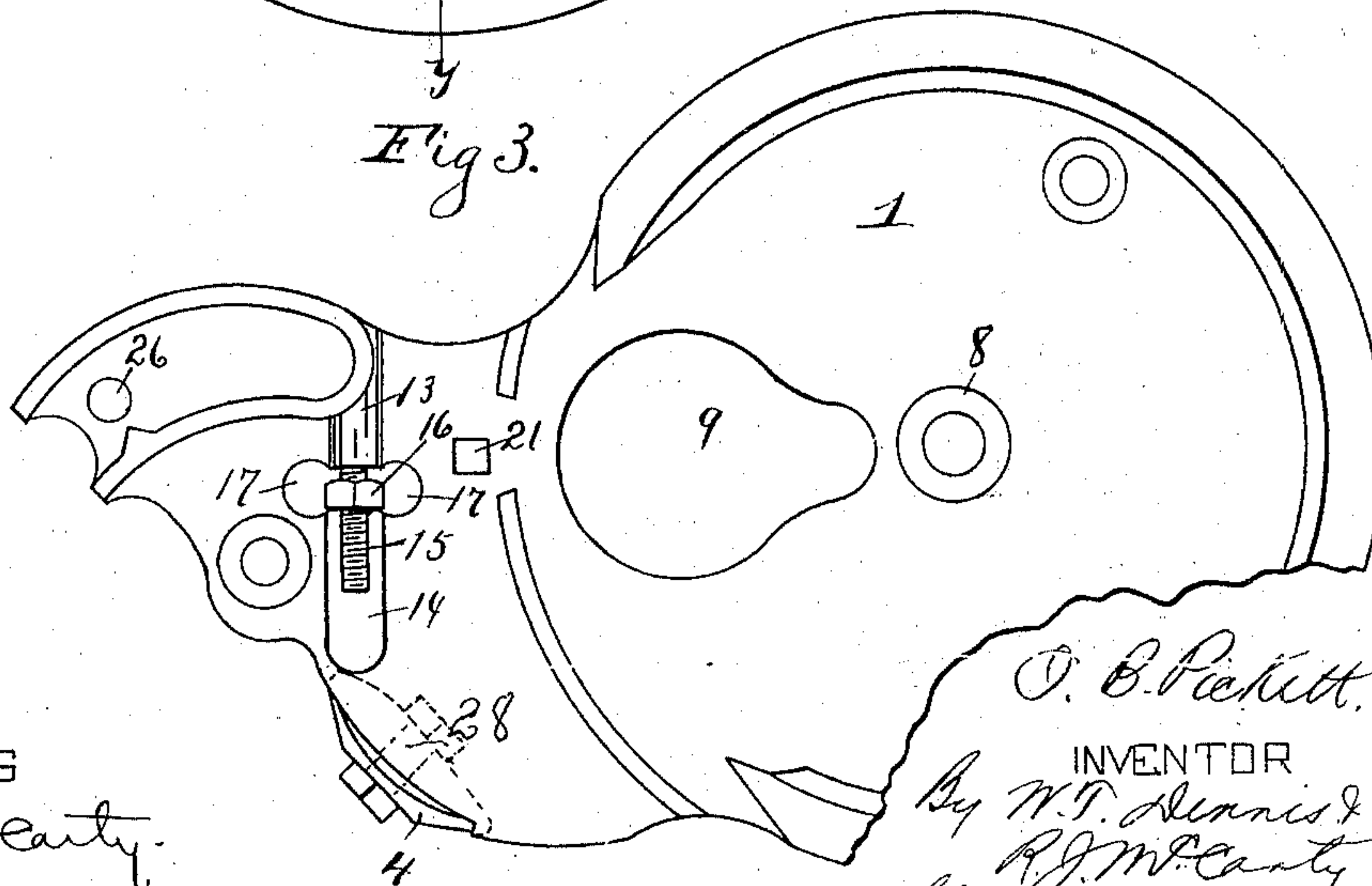


Fig 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

OLIVER B. PICKETT, OF RICHMOND, INDIANA.

LAWN-MOWER.

SPECIFICATION forming part of Letters Patent No. 610,200, dated September 6, 1898.

Application filed November 5, 1897. Serial No. 657,515. (No model.)

To all whom it may concern:

Be it known that I, OLIVER B. PICKETT, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented certain new and useful Improvements in Lawn-Mowers; 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 appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to improvements in lawn-mowers.

The object of the said invention is to provide means for conveniently adjusting the cutting-blades with relation to each other and to obtain an exact and minute adjustment.

As preliminary to a detailed description of the invention reference is made to the accompanying drawings, of which—

Figure 1 is a plan view of a lawn-mower having my improvements thereon. Figs. 2 and 3 are enlarged elevations of the side plates, showing the opposite sides thereof. Fig. 4 is a sectional view on the line xx of Fig. 2. Fig. 5 is a detached view of one of the bearing-plates for the shaft of the rotating blades. Fig. 6 is a section on line yy of Fig. 2.

Throughout the specification similar reference characters indicate corresponding parts in the several views.

The invention is embodied in the side plates 1 1, which are connected by the usual transverse rod 2 and which support the ground-roller 3, the stationary blade 4, and usually the shaft 5 of the rotating blades 6; but in the present instance these side plates do not support the shaft of the cutting-blades 6, as will hereinafter more fully appear. The ground-wheels 7 7 are mounted on hollow stub-shafts 8, that project rigidly from the inner sides of the said plates. Adjacent to these stub-shafts each of the said side plates has an oblong opening 9, or an opening which narrows inwardly and which is essentially larger than the shaft 5 of the rotating blades in order to admit of the said shaft receiving the adjustments in a manner hereinafter described.

10 designates bearing-plates for the ends of the shaft 5 and which have a loose bearing on bosses or annular projections 11 on the outer side of the side plates 1 1. The said bearing-plates 10 are mounted with the journal-openings 10' therein over or in line with the openings 9 in the side plates. The outer ends of the side plates are provided with vertical housings or recesses 13 and 14, standing one above the other in line, with their hollow sides facing in opposite directions, as is shown in Fig. 4. These recesses constitute keepers for a vertically-movable adjusting-bolt 15, which has a nut 16 on its middle portion. There is an open space between the inner terminals of the recesses or housings 13 and 14, in which this nut is confined, and on each side of the said nut or the space which the nut occupies there are openings 17 17, which permit of the insertion of a wrench to turn said nut to lower or elevate the bolt. The upper end 15' of said bolt terminates on an angle and is projected outwardly through an opening 18 on the outer end of the plates 10. The inner sides of the ends of said plates in which the openings 18 are are hollowed out to fit over the rounded form of the bolt. It will thus be seen that these bearing-plates 10 are movable in a slight arc according to the movement given the adjusting-bolt 15, and a very minute adjustment may be given the rotating blades with relation to the stationary blade, the adjustment being obtained through the means and in the manner just described. The bearing-plates 10 may be firmly secured in their adjusted position by a locking-bolt 19, that passes through each of the side plates 1 and the bearing-plates 10 at right angles to the adjusting-bolt 15. The inner ends of the bolts 19 each has a head 20, that fits against the inside of the plate 1, and the said bolts pass through a bolt-hole 21 in each of the side plates and through an oblong vertical slot 22 in each of the bearing-plates 10. The slots 22 in the plates 10 permit of an arc adjustment of said plates through the adjusting-bolt by loosening the nut 23 on each of said locking-bolts. The said nuts are tightened to lock the plates in their adjusted positions.

The handle of the lawn-mower, which is not shown, is attachable in the usual way to

the plates 1 by pins 24 between pins 25 25. The journals of the ground-roller 3 are mount-
able in openings 26 in the side plates, and the
stationary blade 4 is fixed to said plates in
5 openings 28. The reel or rotating blades are
driven in the usual manner.

Having described my invention, I claim—

1. In a lawn-mower, the combination with
the side plates each of which has the vertical
10 recesses 13 and 14 on opposite sides with an
intervening opening 17, and an adjacent
opening 21, of a bearing-plate 10 pivoted to
each of said side plates and adapted to sup-
port the shaft of the cutting-reel, the said
15 bearing-plate having a vertical slot 22, and
an opening 18 on its outer end, a bolt lying in
said recesses 13 and 14 with its upper end
projected into the opening 18 in the bearing-
plate, whereby an arc movement may be im-
20 parted to the bearing-plate, and means for
securing said plate in its adjusted position,
substantially as shown and described.

2. In a lawn-mower, the combination of
side plates having openings therein for the
ends of the shaft of the rotating blades to 25
project through, and vertical recesses with
their concaved sides facing in opposite di-
rections with an intervening space between
their inner ends, bearing-plates mounted on
the said side plates and upon which the end 30
of the shaft of the rotating blades has its
bearing, a bolt and nut operating in said ver-
tical recesses and intervening space in the
side plates for moving the bearing-plates, and
a bolt passing through each of said side plates 35
and bearing-plates for locking the latter
plates in position, substantially as described.

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

OLIVER B. PICKETT.

Witnesses:

R. J. MCCARTY,
J. C. BOONE.