

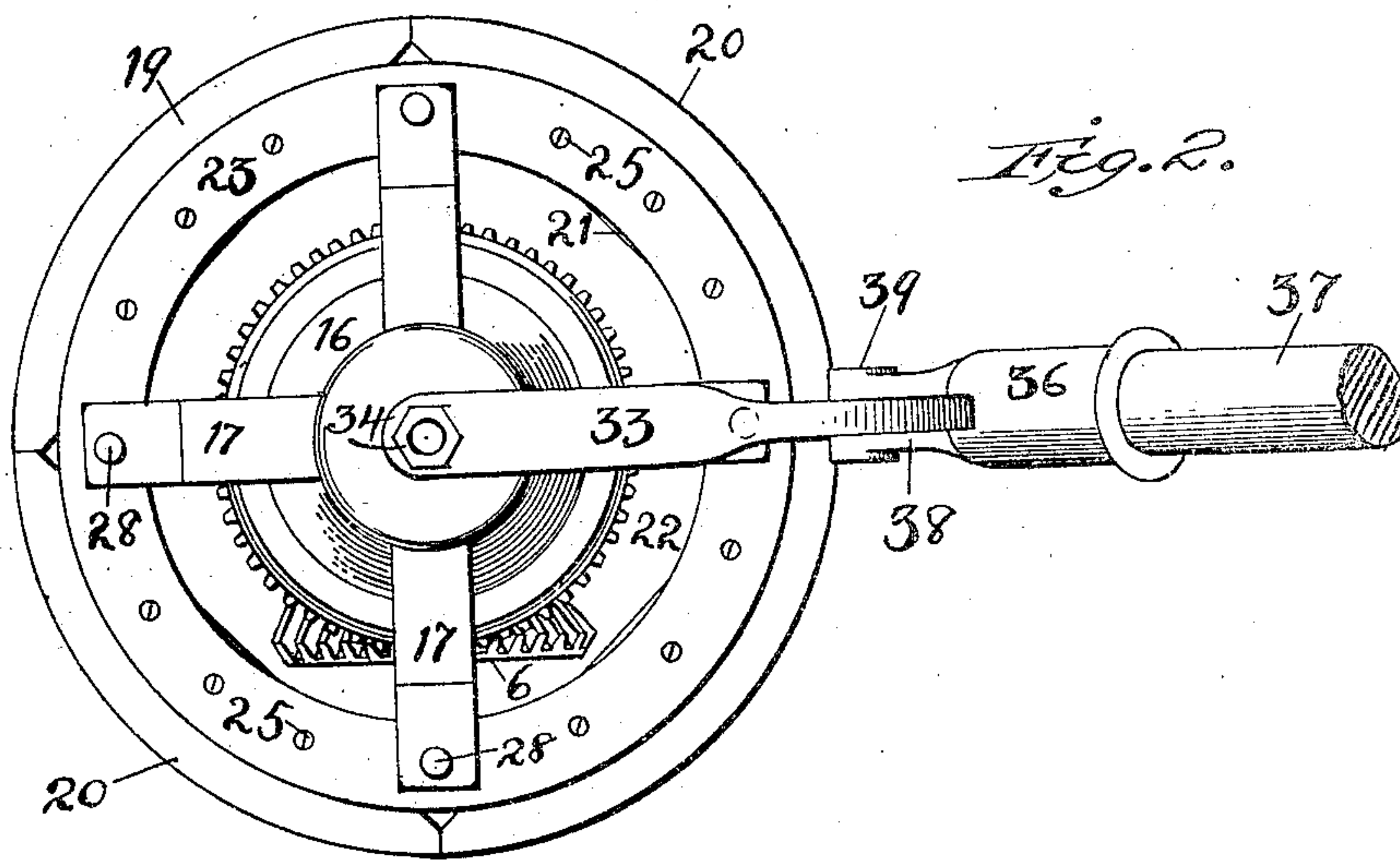
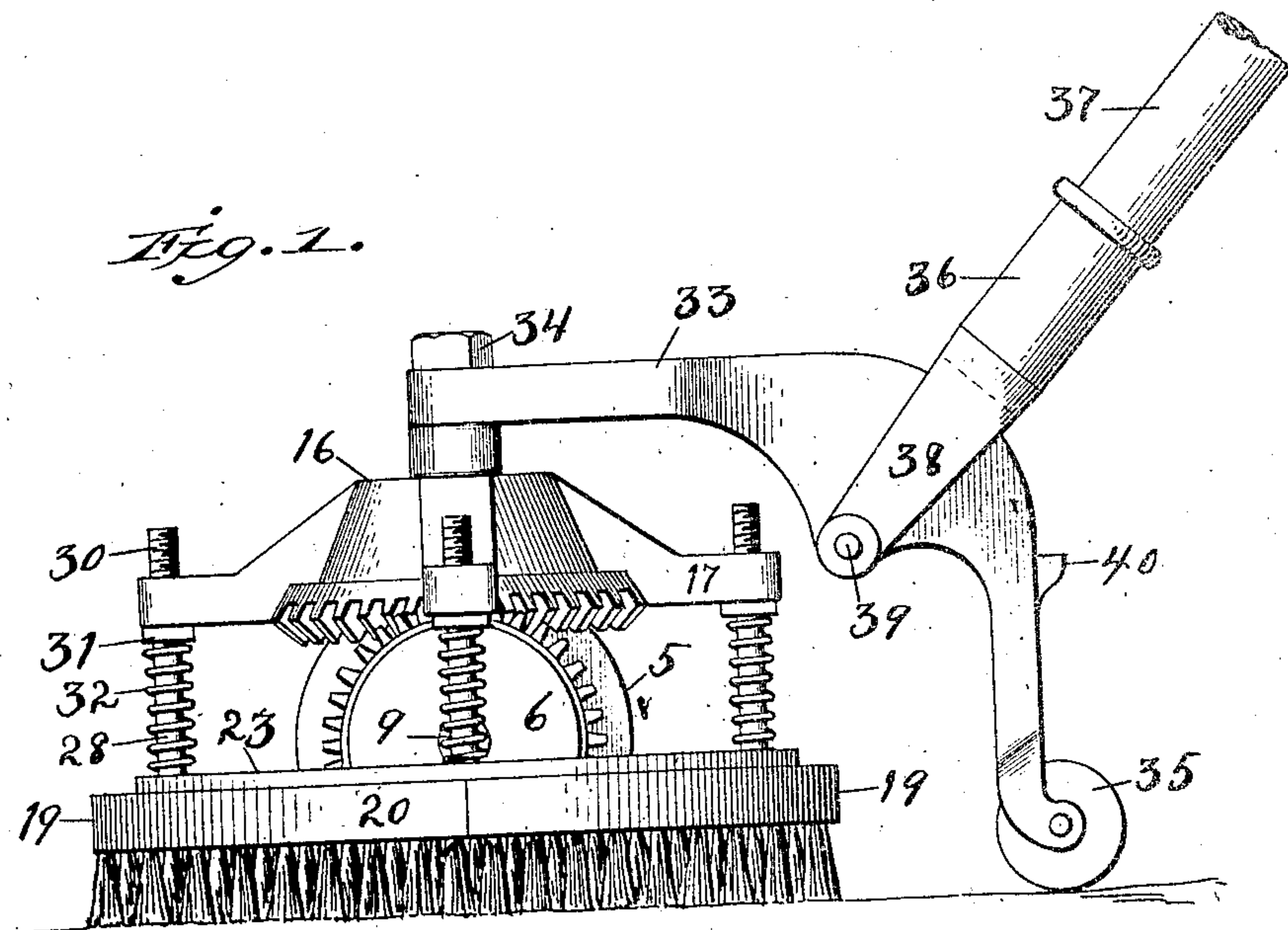
No. 889,309.

PATENTED JUNE 2, 1908

T. R. JENKINS, JR.
ROTARY SCRUBBING MACHINE.

APPLICATION FILED AUG. 17, 1906.

2 SHEETS—SHEET 1.



Witnesses
Edwin L. Yewell
G. H. Vogt.

By

Thomas R. Jenkins, Jr.,
Inventor

Mann & Co.,

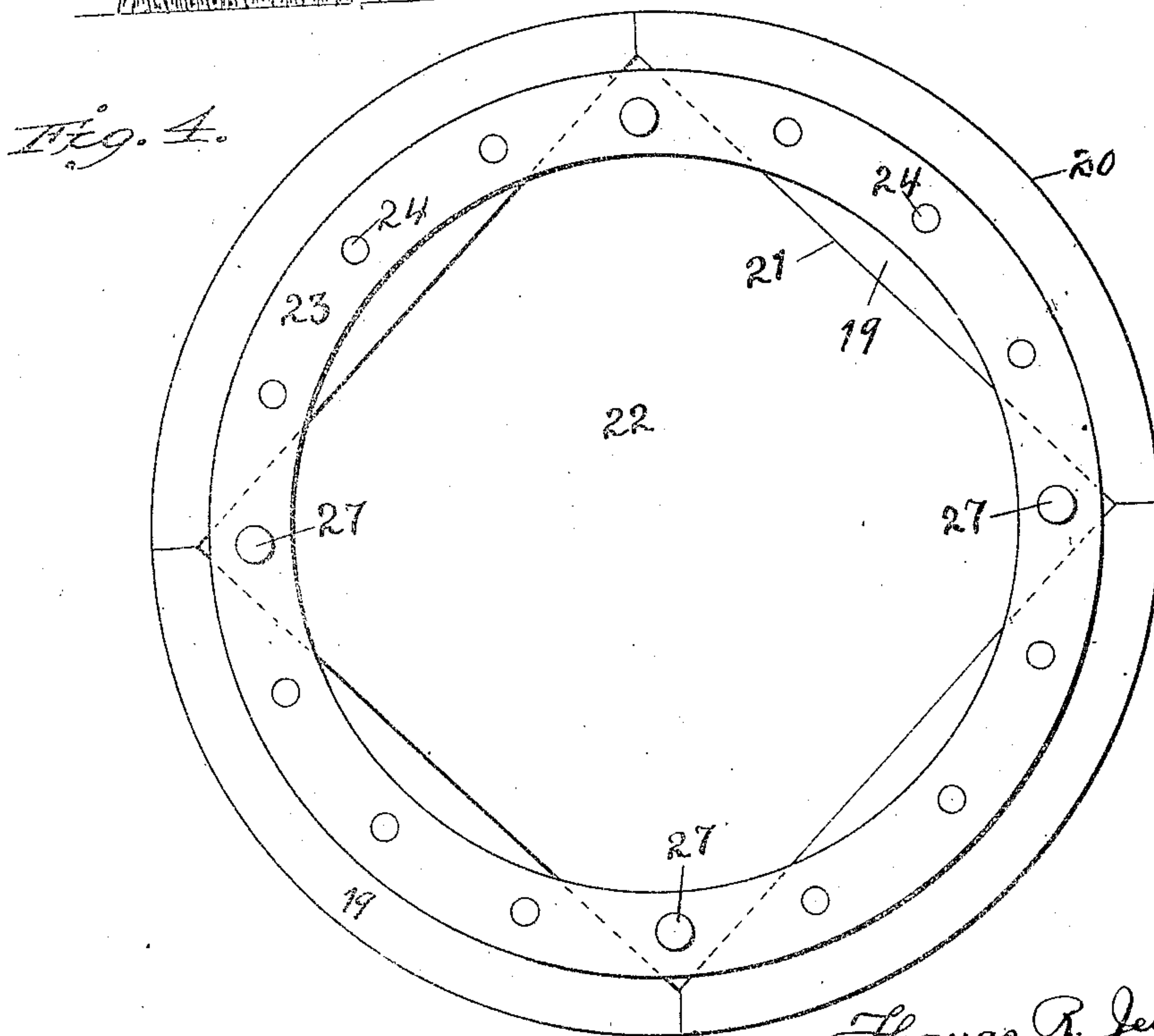
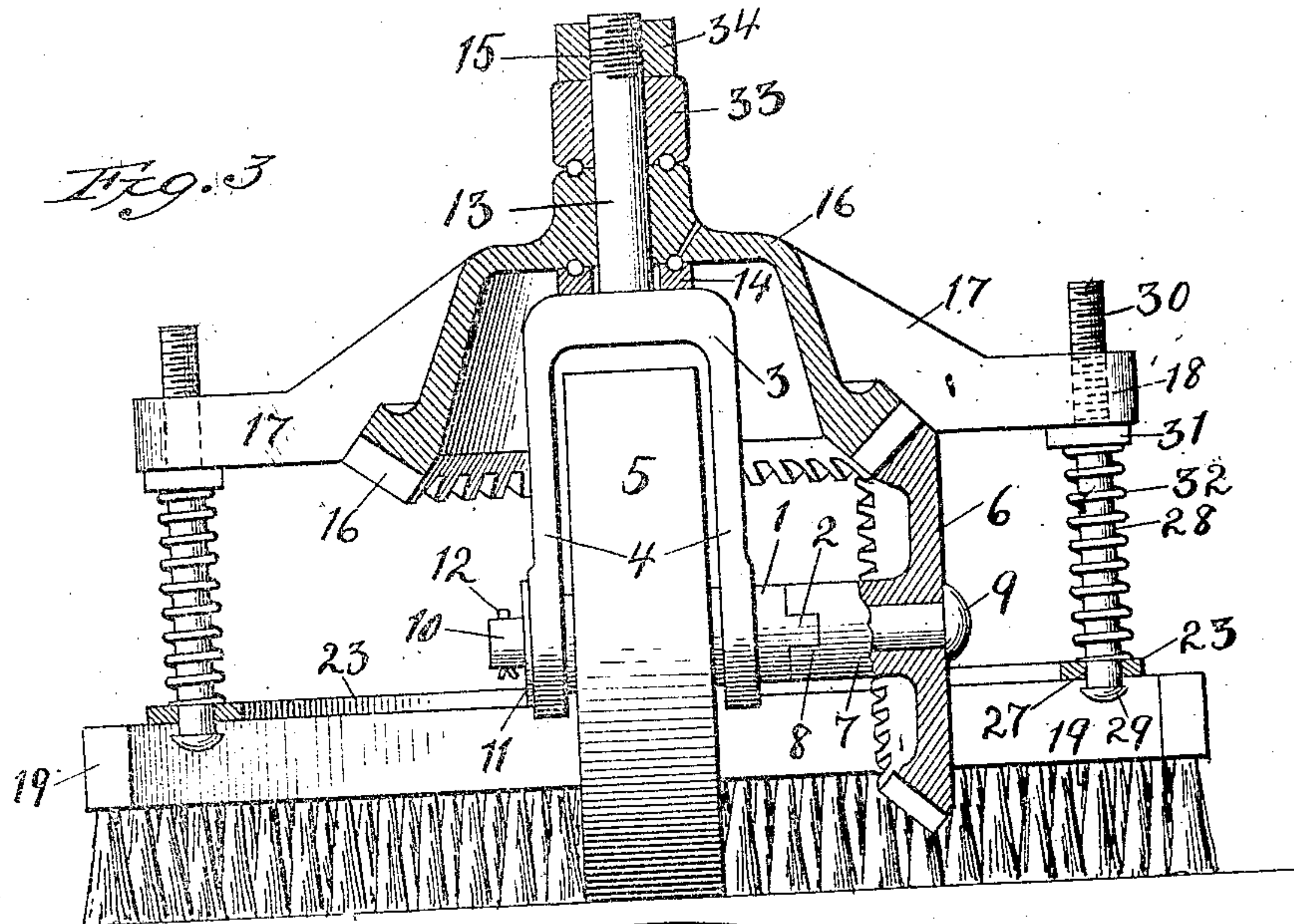
Attorneys.

No. 889,309.

PATENTED JUNE 2, 1908.

T. R. JENKINS, JR.
ROTARY SCRUBBING MACHINE.
APPLICATION FILED AUG. 17, 1906.

2 SHEETS—SHEET 2.



Witnesses
Edwin L. Jewell
G. H. Vogt.

By

Inventor
Thomas R. Jenkins Jr.

Manu & Co.,
Attorneys.

UNITED STATES PATENT OFFICE.

THOMAS R. JENKINS, JR., OF BALTIMORE, MARYLAND

ROTARY SCRUBBING-MACHINE.

No. 889,309.

Specification of Letters Patent.

Patented June 2, 1908.

Application filed August 17, 1906. Serial No. 330,960.

To all whom it may concern:

Be it known that I, THOMAS R. JENKINS, Jr., a citizen of the United States, residing at Baltimore, in the State of Maryland, have
5 invented certain new and useful Improvements in Rotary Scrubbing-Machines, of which the following is a specification.

My invention relates to improvements in rotary scrubbing machines and has among
10 its objects to improve and simplify the construction of machines of this class to enable them to be operated more successfully.

The invention consists in the novel construction, combination and arrangement of
15 the parts as hereinafter described and pointed out in the claims, reference being had to the accompanying drawings, in which,

Figure 1 shows a side elevation of the machine. Fig. 2, a plan view of the same. Fig.
20 3, a central vertical cross-section of the same, and Fig. 4, a detail plan view of the detached brush and ring-plate.

Referring to the drawing by numerals, 1, designates a horizontal tubular shaft which
25 is provided at its inner end with a longitudinally-extending projection, 2. A yoke, 3, has the lower ends of its arms, 4, perforated to provide bearings in which the shaft, 1, turns, and a main driving wheel, 5, is keyed or
30 otherwise secured on the shaft between the arms of the yoke and travels by contact with the surface that is to be scrubbed. A gear, 6, has a hub, 7, which is provided with a groove, 8, and said gear has position adjacent
35 the inner end of the horizontal shaft, and the groove, 8, receives the projection, 2, on the end of the shaft and the two are thereby held in locked engagement so as to be revolved together.

When the gear and shaft have been locked together a bolt, 9, is passed through the hub of the gear and also through the hollow shaft and the end, 10, of said bolt will also project beyond the arm of the yoke. A washer, 11,
45 is fitted over the projecting end of the bolt and against the vertical surface of the yoke-arm and a cotter-pin, 12, is passed through a perforation in the end of the bolt and serves to keep the gear and shaft in engagement.

At the upper end the yoke is provided with a vertically-projecting stem, 13, around the base of which is a bearing, 14, which is seated on top of the yoke. The upper end of the stem is provided with screw-threads, 15.

A gear, 16, is sustained horizontally on the

stem, 13, and said gear seats on the bearing, 14. The shape of this gear is such as to form a cap over the yoke and driving-wheel and this gear meshes with and is driven by the
60 vertical gear, 6.

Arms, 17, are cast integral with the horizontal gear, 16, and project laterally from said gear, and each arm is provided with an internally screw-threaded perforation, 18, in its outer end. These arms may vary in num-
65 ber but in the present instance four are provided, and the purpose of these arms is to sustain the scrubber so the latter may be maintained in contact with the surface to be scrubbed at a uniform pressure as will
70 presently be described.

The scrubber in the present instance, comprises a plurality of brush block sections, 19, each of which has a curved outer surface, 20, and a straight inner surface, 21, so that when
75 the sections are in proper position with respect to each other, the scrubber will be circular in form with a square opening, 22, at the center.

A metal ring-plate, 23, is seated on the top
80 surface of the brush-blocks, 19, and said ring-plate is provided with a plurality of perforations, 24, through which screws or other securing devices, 25, on the brush blocks may pass to hold the brushes to the
85 ring-plate. Perforations, 27, are also provided in the ring-plate and these perforations have a position so as to open into the square opening, 22, at the center of the brushes.

Rods, 28, having heads, 29, are inserted
90 from the bottom of the ring-plate through the perforations, 27, and the upper ends of said rods are provided with screw-threads, 30, which pass through the perforations, 18, in the arms, 17, and adjustably engage the
95 threads therein. Nuts, 31, are carried on the rods, 28, below the arms, 17, and coiled springs, 32, encircle the rods and are compressed between the nuts and the ring-plate and exert a constant downward pressure on
100 the ring-plate and brushes. By adjusting the nuts on the rods, 28, the pressure of the springs on the ring-plate and brushes may be varied.

A bracket, 33, has one end pivotally en-
105 gaged by the stem, 13, and is held in such engagement by a nut, 34. This bracket extends laterally from the stem and projects over and beyond the arms, 17, and the rim of the brushes and then turns downwardly
110

and at its lower end is provided with a revolving support, 35, which rolls on the surface being scrubbed.

A socket member, 36, in which an operating rod, 37, is inserted is provided with a bifurcated lower end, 38, which straddles and projects downwardly on opposite sides of the bracket and at the lower end this socket member is pivotally attached at, 39, to said bracket. A lug, 40, is provided on the downwardly-turned portion of the bracket and serves as a stop for the socket member when the handle or operating rod is lowered. By thus pivoting the operating rod to the bracket the same may be lowered to enable the brush to be rolled under an article of furniture to scrub a floor and the machine can thus be operated in places where otherwise it could not be used.

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

1. A rotary scrubbing machine having a circular brush; a driving wheel around which the brush is to be revolved; a yoke sustained by the driving wheel; a gear at the side of the yoke and revolved by the said driving wheel; a second gear covering the yoke and driving wheel and meshing with the first-named gear; and rods sustained by the second gear and loosely connecting the circular brush.

2. A rotary scrubbing machine having a brush, a central driving wheel around which the brush is to be revolved; a yoke sustained by the central driving wheel gears revolved by the said central driving wheel; means for yieldingly sustaining the brush from one of said gears; a bracket extending laterally from a point above the central driving wheel and having a revolving support at its outer end and an operating rod pivotally connected to said bracket.

3. A rotary scrubbing machine having a

brush, a central driving wheel around which the brush is to be revolved; a yoke sustained by the driving wheel and having a stem projecting therefrom; a gear sustained at the side of the yoke and revolved by the driving wheel; another gear mounted on the yoke stem and covering the yoke and driving wheel and meshing with said first named gear; and rods supported by and radiating from the gear on the yoke-stem and yieldingly sustaining the brush.

4. A rotary scrubbing machine having a brush, a central driving wheel around which the brush is to be revolved; a tubular shaft extending through the driving wheel; a yoke sustained by the tubular shaft; a vertical gear at the end of said shaft and beyond the yoke; a bolt extending through the tubular shaft and holding the vertical gear in engagement with the end thereof; a horizontal gear sustained on top of the yoke and covering the driving wheel and meshing with the gear at the end of the tubular shaft, and rods sustained by the horizontal gear and having their lower ends connected with the brush.

5. A rotary scrubbing machine having a circular brush; a single central driving wheel around which the brush revolves; a yoke sustained by the central driving wheel gears revolved by the said central driving wheel; arms projecting laterally from one of said gears and having screw-threaded perforations in their outer ends; screw-threaded rods adjustable in the perforations of said arms and having their lower ends loosely connected with the brush; coiled springs encircling said rods, and means on the rods for varying the pressure of said springs.

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

THOMAS R. JENKINS, JR./

Witnesses:

G. FERDINAND VOGT,
CHARLES B. MANN, Jr.