

J. C. ARMSTRONG.
STONE DRESSING MACHINE.

APPLICATION FILED MAY 18, 1907. RENEWED JULY 6, 1908.

898,820.

Patented Sept. 15, 1908.

2 SHEETS—SHEET 1.

Fig. 1.

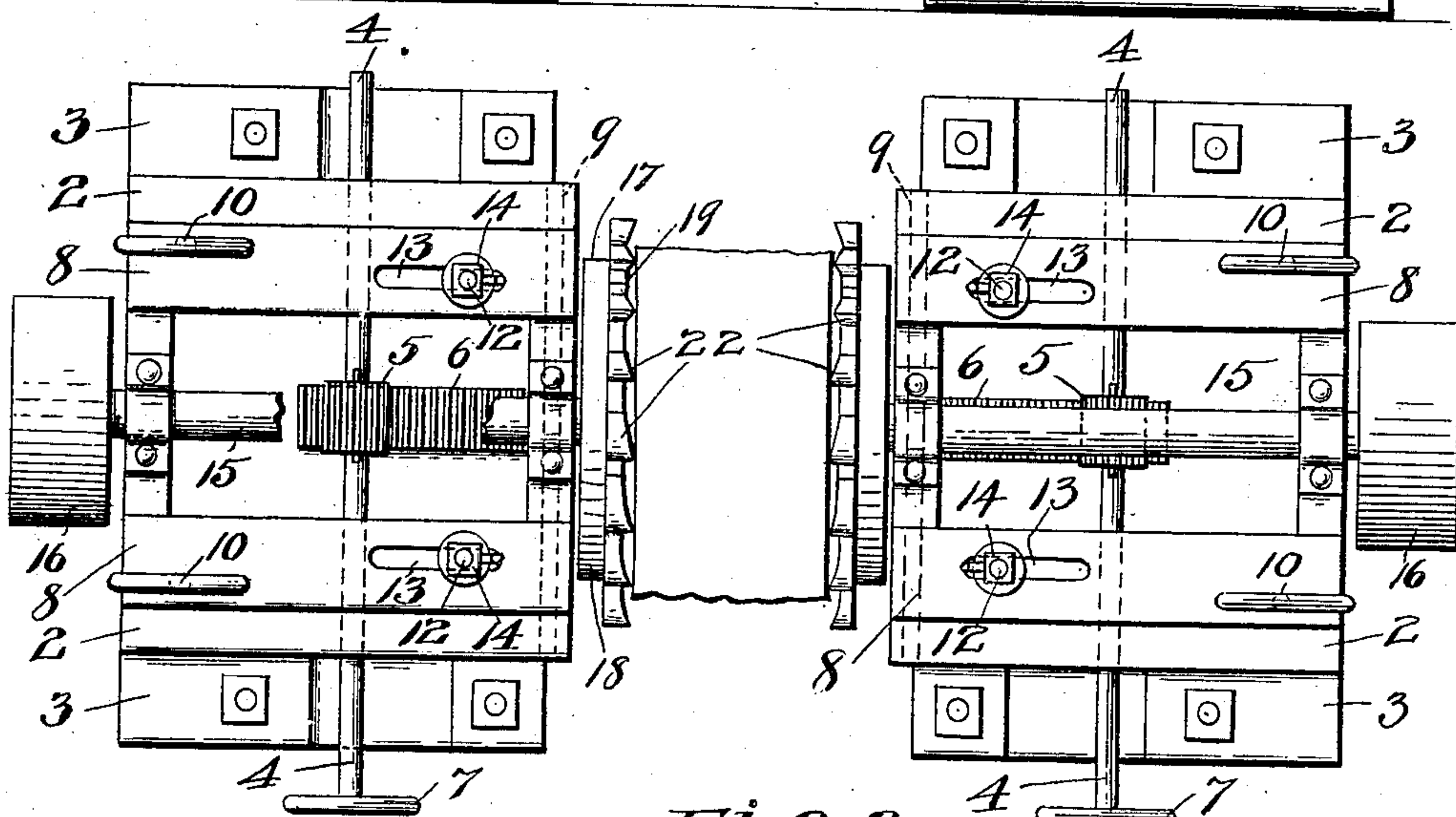
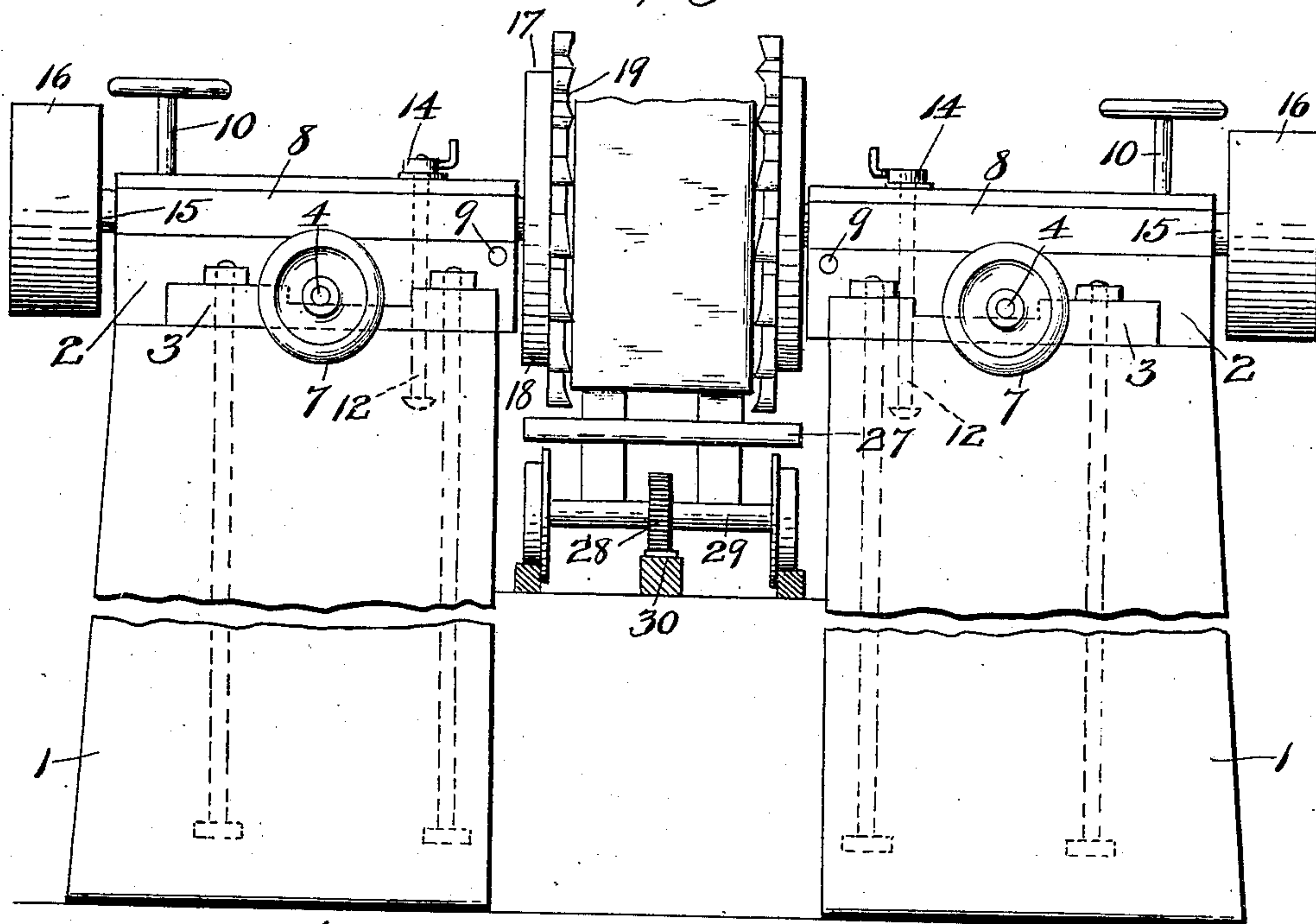


Fig. 2.

WITNESSES:

James V. Blackwood
Charles H. Staudolph, Jr.

INVENTOR

John C. Armstrong
BY *D. A. Gourier*
Attorney

J. C. ARMSTRONG.
STONE DRESSING MACHINE.

APPLICATION FILED MAY 18, 1907. RENEWED JULY 6, 1908.

898,820.

Patented Sept. 15, 1908.

2 SHEETS—SHEET 2.

Fig. 3.

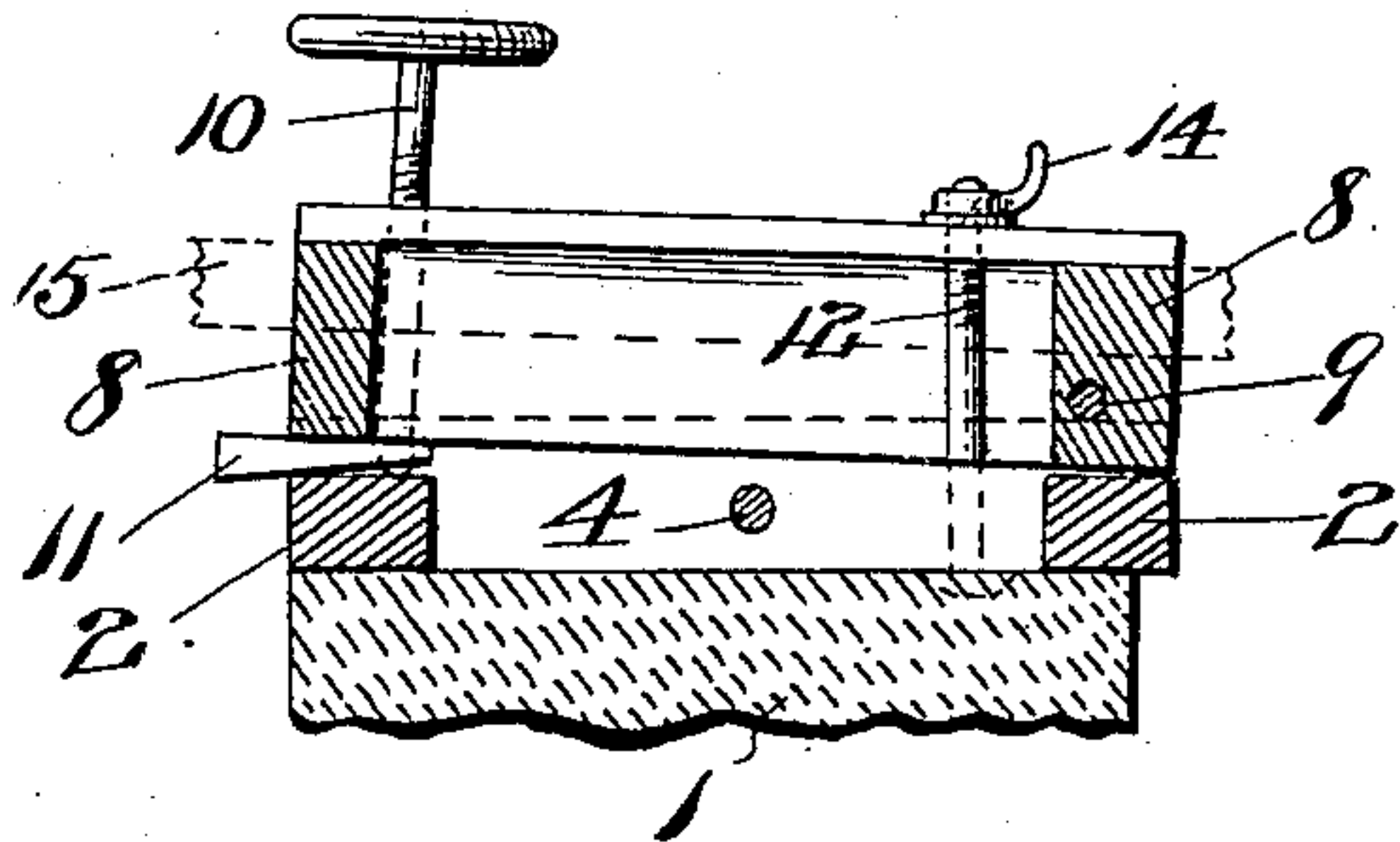
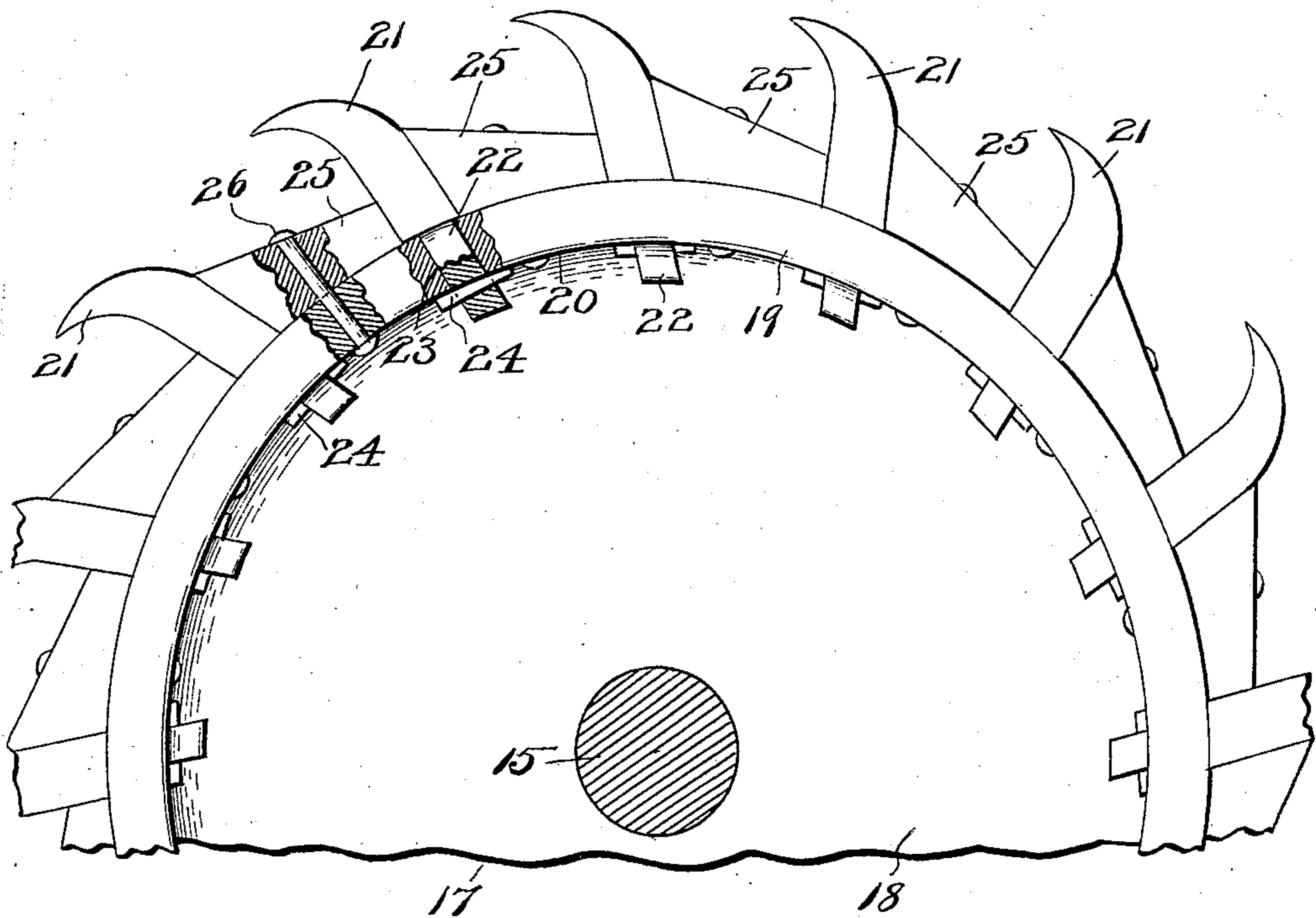


Fig. 4.



WITNESSES:

Jas. H. Blackwood
W. Randolph Jr.

INVENTOR

John C. Armstrong
BY D. A. Gourick
Attorney

UNITED STATES PATENT OFFICE.

JOHN C. ARMSTRONG, OF NEWKIRK, OKLAHOMA.

STONE-DRESSING MACHINE.

No. 898,820.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed May 18, 1907, Serial No. 374,333. Renewed July 6, 1908. Serial No. 442,250.

To all whom it may concern:

Be it known that I, JOHN C. ARMSTRONG, a citizen of the United States, residing at Newkirk, in the county of Kay, Oklahoma, have
5 have invented certain new and useful Improvements in Stone-Dressing Machines, of which the following is a specification.

My invention relates to machines for dressing stone and particularly to that class
10 employing rotary cutter heads and has for its object the provision of improved means for holding the cutters in the head.

My invention also contemplates improvements in the carriage and means for adjusting
15 it which will be more particularly described hereinafter and illustrated in the accompanying drawings in which—

Figure 1 is a side view of my improved machine for dressing stone, Fig. 2, a top plan
20 view, Fig. 3, a cross section of one of the carriages, Fig. 4, a detail view of one of the cutter heads showing the manner of fastening the cutters in position.

In the drawings similar reference characters
25 indicate corresponding parts throughout the several views.

My machine is preferably mounted on a foundation of concrete or other solid structure indicated at 1 and consists of two ad-
30 justable frames and their mountings, said adjustable frames including the rectangular frame 2 mounted between the guides 3 secured to foundation 1.

4 indicates a shaft rotatably mounted in
35 frame 2 and having a pinion 5 keyed thereto meshing with the gear rack 6 secured to the foundation.

It will be understood from this structure that when the shaft 4 is rotated by means of
40 the hand wheel 7 the frame 2 is moved by means of the pinion 5 and rack 6 so as to move the cutters to be hereinafter described either towards or from the work.

8 indicates another rectangular frame pivotally mounted at one end to the frame 2 by
45 means of a rod 9 the other end of the frame being adjustable by means of screws 10 or other suitable elevating means.

11 indicates wedges to support the adjustable end of the frame after being adjusted by
50 the screws 10.

12 indicates bolts secured in foundation 1 and extending through slots 13 in frame 8 and 14 hand nuts engaging the threaded ends
55 of the bolts to clamp the frames 2 and 8 in an adjusted position.

15 indicates a shaft journaled on frame 8, having at one end a pulley or other gear 16 to rotate the shaft, and a cutter head 17 at the other end. The cutter head comprises a
60 wheel 18 with a ring 19 secured thereto and projecting from one side of the wheel as shown at 20.

21 indicates the cutters having shanks 22 secured in holes 23 in the projecting portion
65 20 by means of wedge keys 24.

25 indicates blocks secured between cutters 21, by means of bolts 26, to brace the cutters.

27 indicates a carriage for the stone which
70 is actuated by means of pinions 28 keyed to shafts 29 journaled on the carriage which mesh with gear racks 30 secured between the foundations 1.

It will be understood that when the stone
75 is to be dressed on vertical planes the frames 8 are set so that the shafts 15 are perfectly horizontal and then the frames 2 are set so that the cutters 21 engage the stone. Should
80 it be desired to dress one or both sides of the stone at an angle to the perpendicular the frames 8 must be set so that the shafts 15 are
at the proper angle to do the work desired.

From the above description it will be understood that in operation the stone to be
85 dressed is secured to carriage 27 and the frames 2 and 8 set so that the cutter heads 17 are in position to cut the stone at the angle and to the depth desired. By moving the
90 carriage between the cutter heads which are rotated by means of shafts 15 the stone will be dressed its full length or by stopping the carriage at any point the dressing may be discontinued at said point.

Having thus described my invention what
95 I claim is:—

1. A cutter head for stone dressing machines comprising a wheel, a ring secured to the wheel, one edge of said ring projecting
100 from the edge of the wheel, the projecting portion being perforated, cutting blades having shanks to fit in the perforations aforesaid, and blocks secured to the ring between the cutting blades, substantially as shown and described.

2. A stone dressing machine comprising a suitable base, a frame slidably mounted on said base, another frame pivotally secured to said sliding frame, a shaft journaled in said sliding frame having a pinion keyed thereto,
110 a gear rack secured to the base and meshing with the pinion aforesaid, screw shafts

secured to the pivoted frame and engaging the sliding frame to raise the free end of said pivoted frame, and the cutting tool secured to the pivoted frame, substantially as shown
5 and described.

3. A stone dressing machine comprising a suitable base, a frame slidably mounted on said base, another frame pivotally secured to said sliding frame, a shaft journaled in said
10 sliding frame having a pinion keyed thereto, a gear rack secured to the base and meshing with the pinion aforesaid, screw shafts secured to the pivoted frame and engaging the sliding frame to actuate the free end of
15 the pivoted frame, the pivoted frame pro-

vided with slots, bolts secured to the base and extending through the slots in the frame, hand nuts on said bolts to lock the frames in an adjusted position, a shaft journaled on said pivoted frame, a wheel secured to said
20 shaft, a ring secured to the wheel having a projecting perforated rim, and cutting blades secured in the perforations in said rim, substantially as shown and described.

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

JOHN C. ARMSTRONG.

Witnesses:

G. A. CHAPPELL,
H. S. BRANCH.