

899,433.

E. M. RABY.
PEANUT SHELLER.
APPLICATION FILED SEPT. 25, 1907.

Patented Sept. 22, 1908.
3 SHEETS—SHEET 1.

FIG. 1

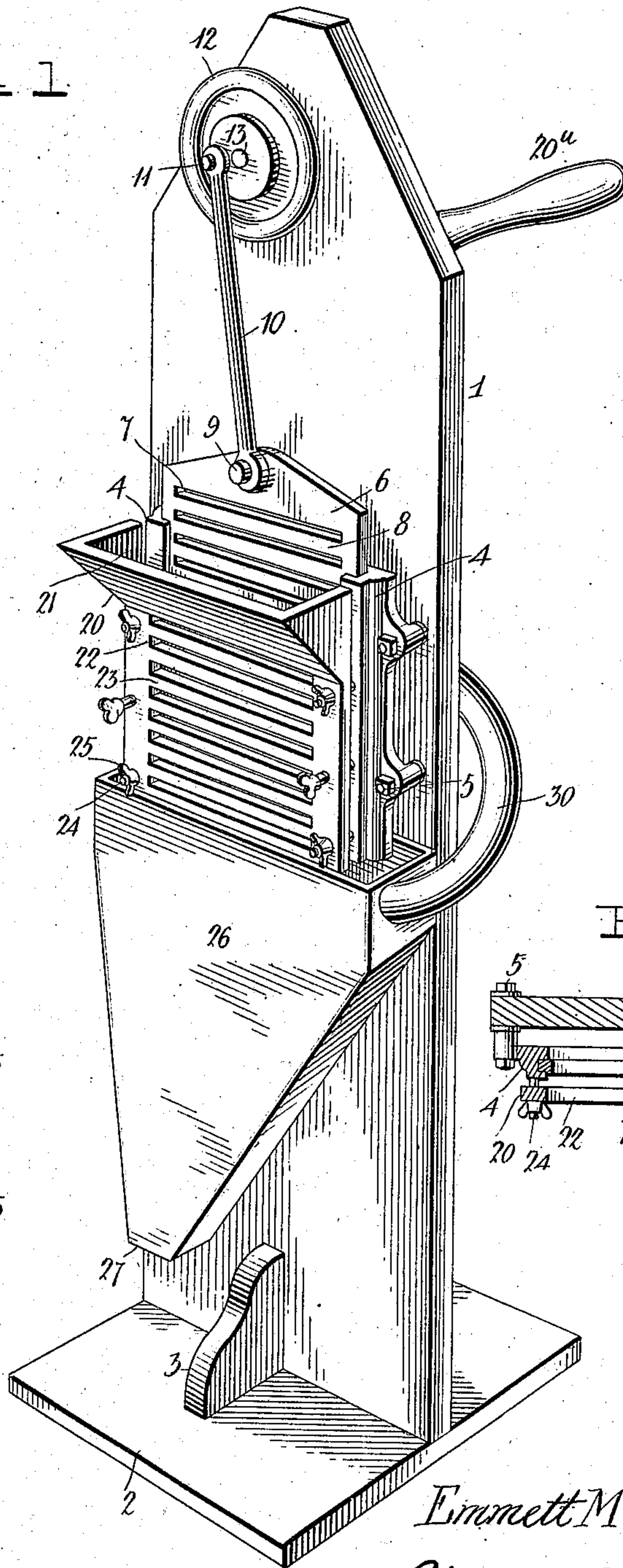


FIG. 4

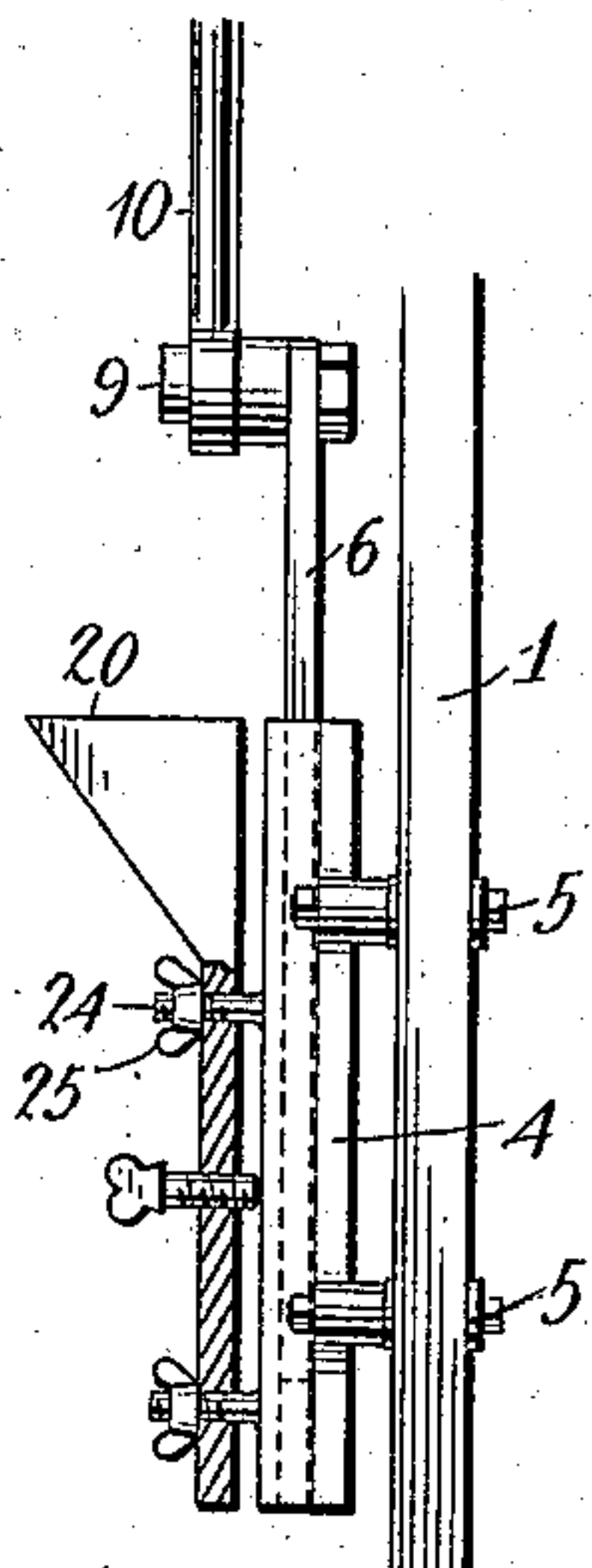
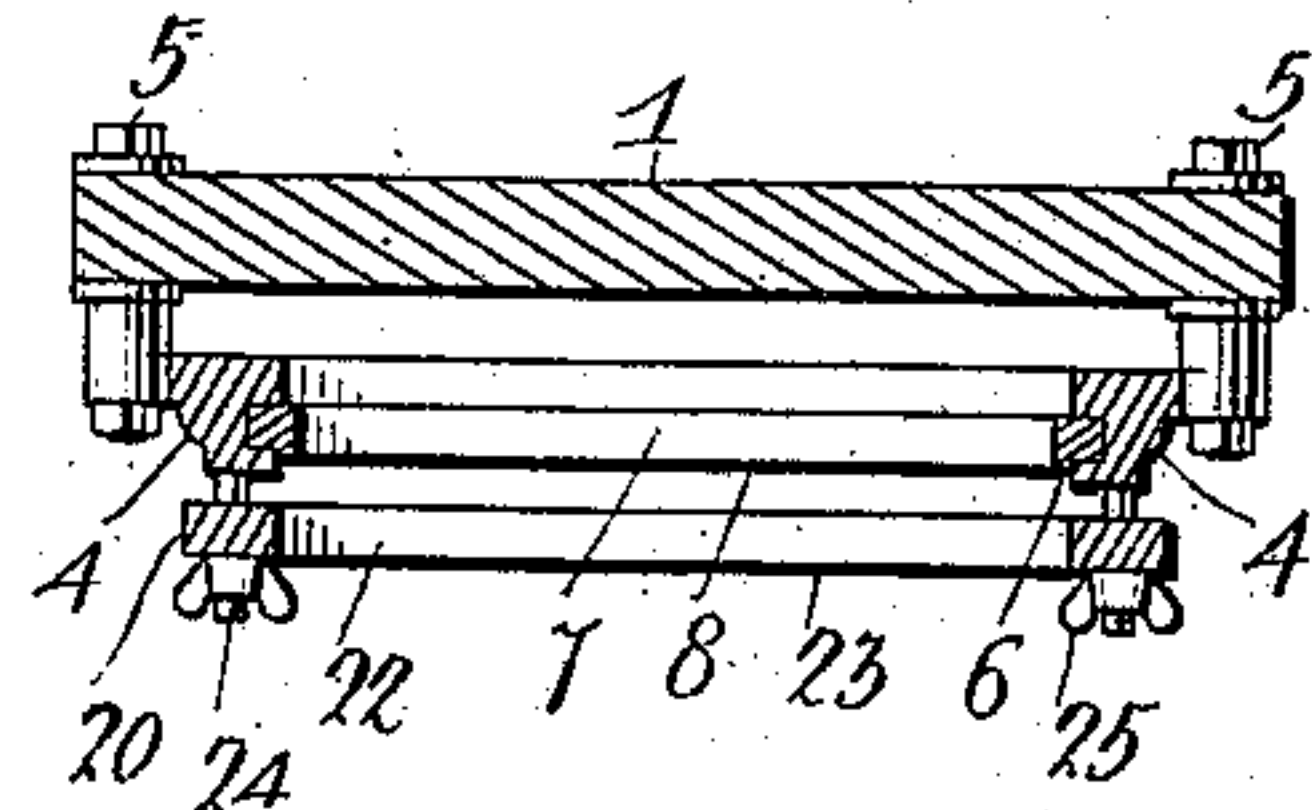


FIG. 5



Witnesses.

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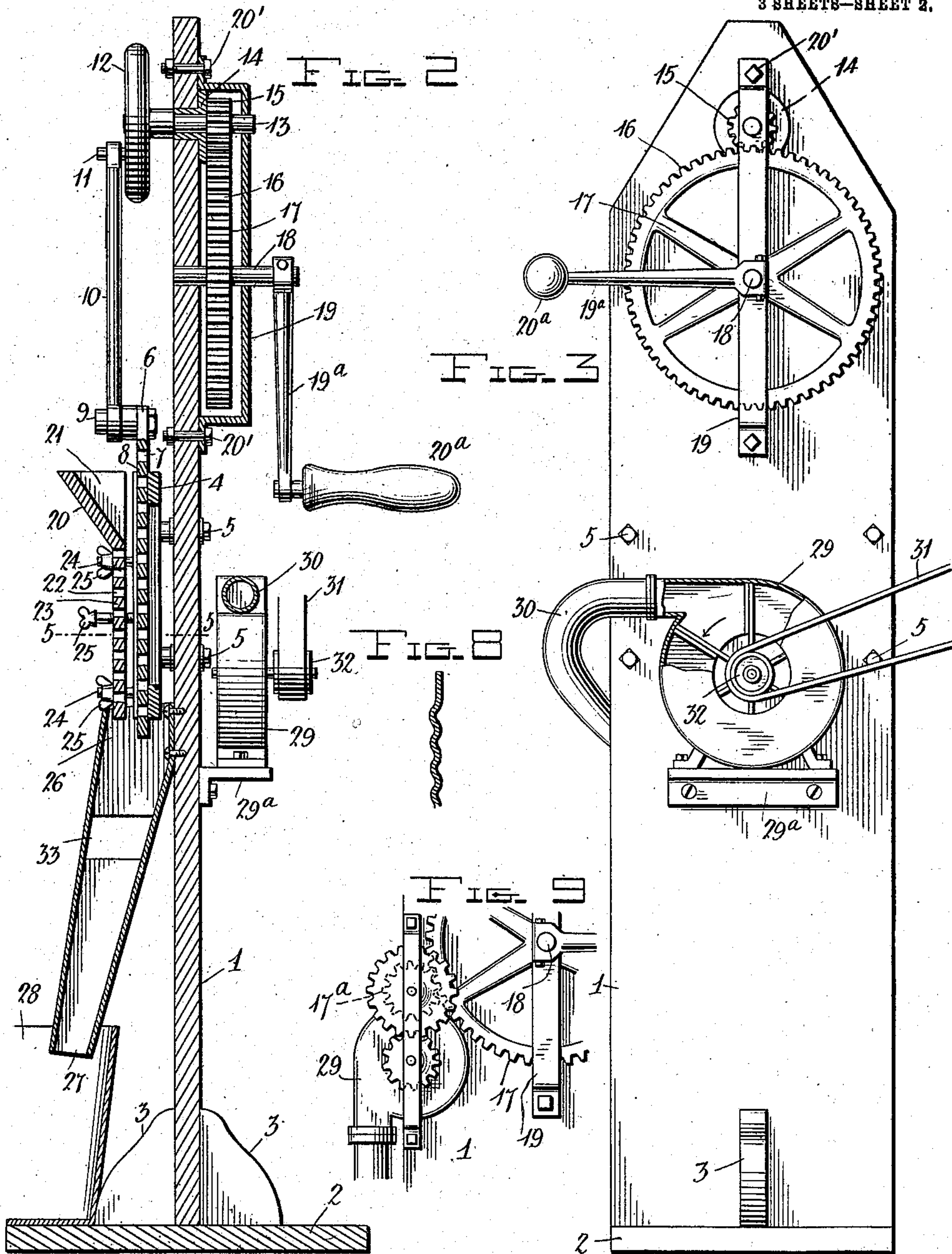
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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

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FIG. 6

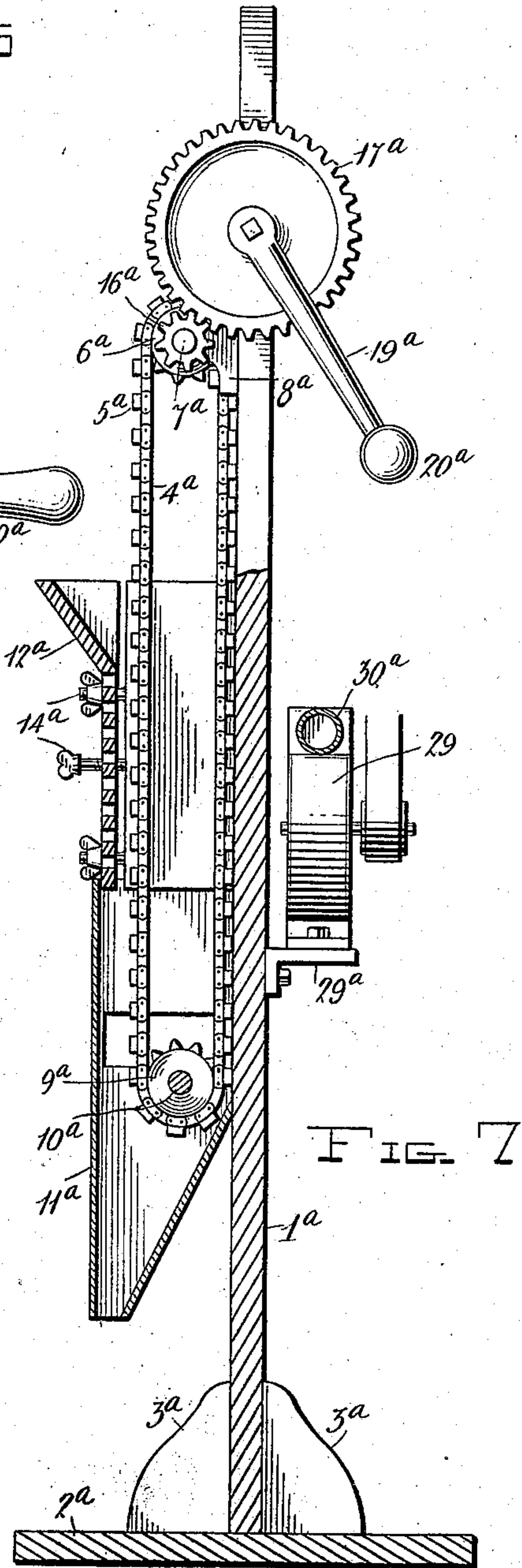
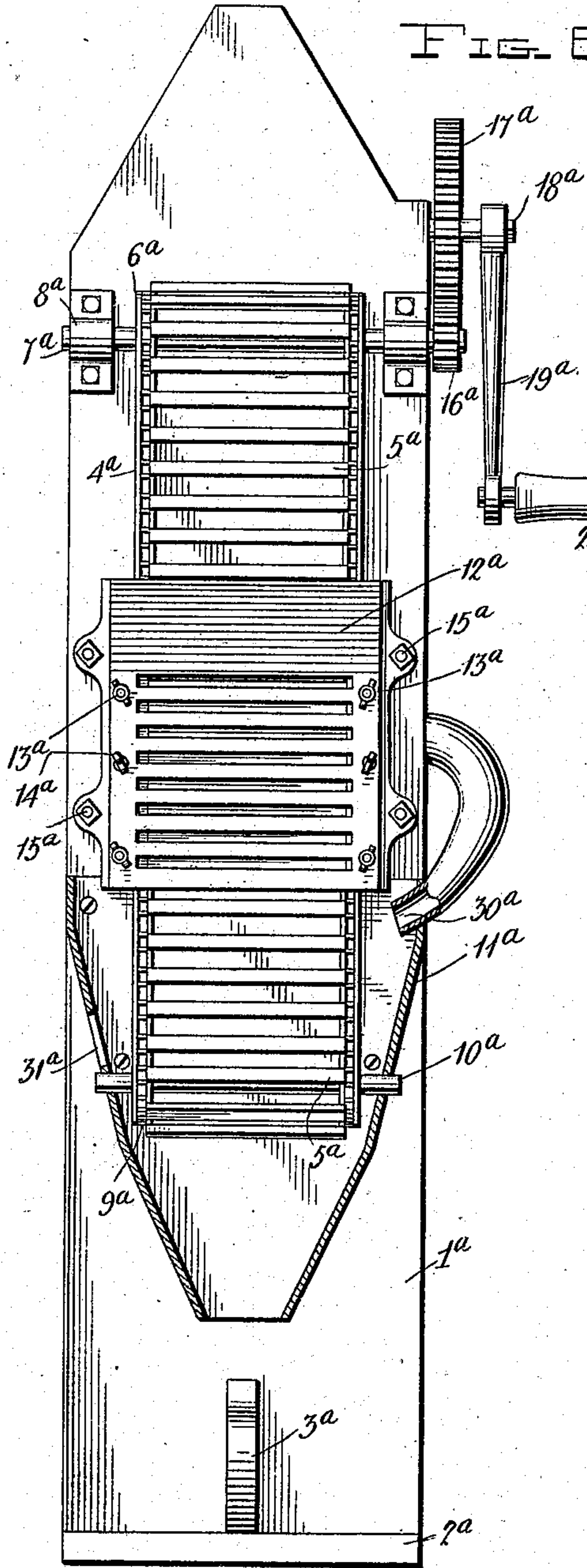


FIG. 7

Witnesses

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UNITED STATES PATENT OFFICE.

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PEANUT-SHELLER.

No. 899,433.

Specification of Letters Patent.

Patented Sept. 22, 1908.

Application filed September 25, 1907. Serial No. 394,506.

To all whom it may concern:

Be it known that I, EMMETT M. RABY, a citizen of the United States, residing at Berkley, in the county of Norfolk and State of Virginia, have invented new and useful Improvements in Peanut-Shellers, of which the following is a specification.

This invention relates to peanut shellers, and one of the principal objects of the same is to provide a machine which will operate quickly to remove the shells from the peanuts and deposit the kernels in a receptacle and to remove the shells from the machine during the shelling operation.

Another object of my invention is to provide means for quickly removing the shells from peanuts, and for depositing the kernels in a receptacle and for blowing the shells out of the machine by a blast of air projected transversely of the discharge spout.

These and other objects may be attained by means of the construction illustrated in the accompanying drawing, in which:

Figure 1 is a perspective view of a peanut sheller made in accordance with my invention. Fig. 2 is a central vertical section of the same. Fig. 3 is a rear elevation and partial section. Fig. 4 is a detail side view and partial section showing the manner of adjusting one of the shelling members toward and from the other. Fig. 5 is a sectional view on the line 5—5 of Fig. 2. Fig. 6 is a front elevation and partial section of a modified form of my invention. Fig. 7 is a vertical section of the same. Fig. 8 is a sectional view of a modified form of sheller member. Fig. 9 is a side elevational view, illustrating the manner in which the fan blower may be geared up to the large gear wheel to enable the sheller members and fan blower to be operated from the same source of power.

Referring to Figs. 1 to 5 of the drawings, the numeral 1 designates the frame of the machine consisting of a suitable upright or board supported upon a base 2 and provided with suitable braces 3. Secured to the front of the upright 1 is a pair of guide members 4 secured by bolts 5 to the upright 1 and provided with suitable grooves in which a reciprocating sheller member 6 is mounted to slide, said sheller member consisting of a plate provided with a series of transverse slots 7 and intermediate cross bars 8, said plate being pivotally connected at 9 to a connecting rod 10, the opposite end of which is

pivoted upon an eccentric pin 11 projecting outward from a wheel 12, the shaft 13 of which is journaled in a bushing 14 extending through the upright 1.

Mounted on the shaft 13 is a pinion 15, the teeth of which engage the teeth 16 of a large gear wheel 17 fixed to a shaft 18 journaled in the upright 1, and supported by means of a metallic strap 19, bolted at 20 to the upright 1. The shaft 13 is also supported in the strap 19. An adjustable shelling member 20 having an outwardly flaring hopper-like upper end 21, is provided with a series of transverse slots 22 and intermediate cross bars 23, said member being adjustable toward and from the sheller member 6 by means of bolts 24 and winged nuts 25. The lower ends of the sheller members are disposed within the upper end of a discharge spout 26, the lower end 27 of which is contracted for discharging the kernels into a suitable receptacle 28 resting upon the base 2. The sheller members may be constructed of corrugated sheet metal, as shown in Fig. 8 of the drawings.

A fan blower 29 is provided with an air pipe 30 which extends through the side wall of the discharge chute 26, said fan blower being rotated by means of a suitable belt 31 passing around a pulley 32 on the fan shaft. The fan blower may be rotated from the large gear wheel 17 through the medium of a pair of gears 17^a, as shown in Fig. 9 of the drawings. A suitable opening 33 in the opposite side of the discharge chute 26 provides means whereby the shells are removed by the air blast through the side of the chute, while the kernels are deposited in the receptacle 28.

Referring to Figs. 6 and 7 in which a modified form of my invention is illustrated, it will be seen that the numeral 1^a designates the upright supported upon a base 2^a provided with suitable braces 3^a. An endless belt 4^a provided with cross slats 5^a passes around a pair of sprocket wheels 6^a fixed to a shaft 7^a journaled in bearings 8^a secured to the upright 1. The lower end of said endless belt 4^a passes around sprocket wheels 9^a secured to a shaft 10^a, the ends of said shaft being journaled in openings in the opposite sides of the discharge chute 11^a. The adjustable shelling member 12^a is substantially identical with that shown in the other figures of the drawing; and is provided with suitable adjusting nuts 13^a mounted upon bolts 14^a, said member being secured to the upright 1

by means of suitable bolts 15^a. On one end of the shaft 7^a a suitable pinion 16^a is fixed and a gear wheel 17^a is connected to a shaft 18^a, and said shaft is provided with a crank arm 19^a having a suitable handle 20^a for operating the endless belt.

It will be understood that while I have shown hand cranks 35 and 19^a for operating the machine, I may operate the machine by means of a motor or other suitable power, and the machine shown in Figs. 6 and 7 is particularly adapted for this purpose, while the machine shown in the other figures is designed to be operated by hand, although either of the machines may be operated by hand crank if so desired.

As shown in Figs. 6 and 7 a fan blower 29 is supported upon a bracket 29^a secured to the upright 1 and the air pipe 30 at its discharge end 30^a is disposed in an opening in the discharge chute in line with a slot or opening 31^a in the opposite side of said chute.

The operation of my invention may be briefly described as follows: Peanuts are placed in the hopper-like opening 21 and the sheller plate 6 is reciprocated, the hulls drop after they have been removed from the kernels and are blown out by means of the blower 30, the kernels dropping into the receptacle 28.

The operation of the device shown in Fig. 6 is similar to that already referred to, the endless belt 4^a being moved to remove the shells of the nuts and they are blown through the opening 31^a, while the kernels are dropped through the discharge chute, as will be understood.

My invention is of simple construction and

can be operated to quickly shell the peanuts and discharge the kernels in one receptacle, while the shells are blown out through the discharge chute.

Having thus described the invention, what I claim is:

1. In a machine for shelling peanuts, the combination of a shelling member comprising a plate having a series of slots therein, means for reciprocating said member, a relatively stationary shelling member comprising an outwardly flared upper end and a plate provided with a series of transverse slots, a fan blower supported at one side of the shelling members, an air pipe connected to said fan blower, and the discharge end of said pipe being disposed within a chute, the latter having a discharge opening in the side thereof opposite the discharge end of the air pipe.

2. A peanut sheller comprising a shelling member provided with transverse slots, means for reciprocating said shelling member, a relatively stationary shelling member comprising an outwardly flaring upper end and a lower portion provided with transverse slots, means for adjusting said stationary member toward and from said reciprocating member, a blower supported at one side of the shelling members for discharging shells at one point, and means for discharging the kernels at another point.

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

EMMETT M. RABY.

Witnesses:

H. B. URQUHART,

H. L. MITCHELL.