

(No Model.)

A. A. BOURGEOIS.  
RICE HULLING MACHINE.

No. 409,905.

Patented Aug. 27, 1889.

Fig. 1.

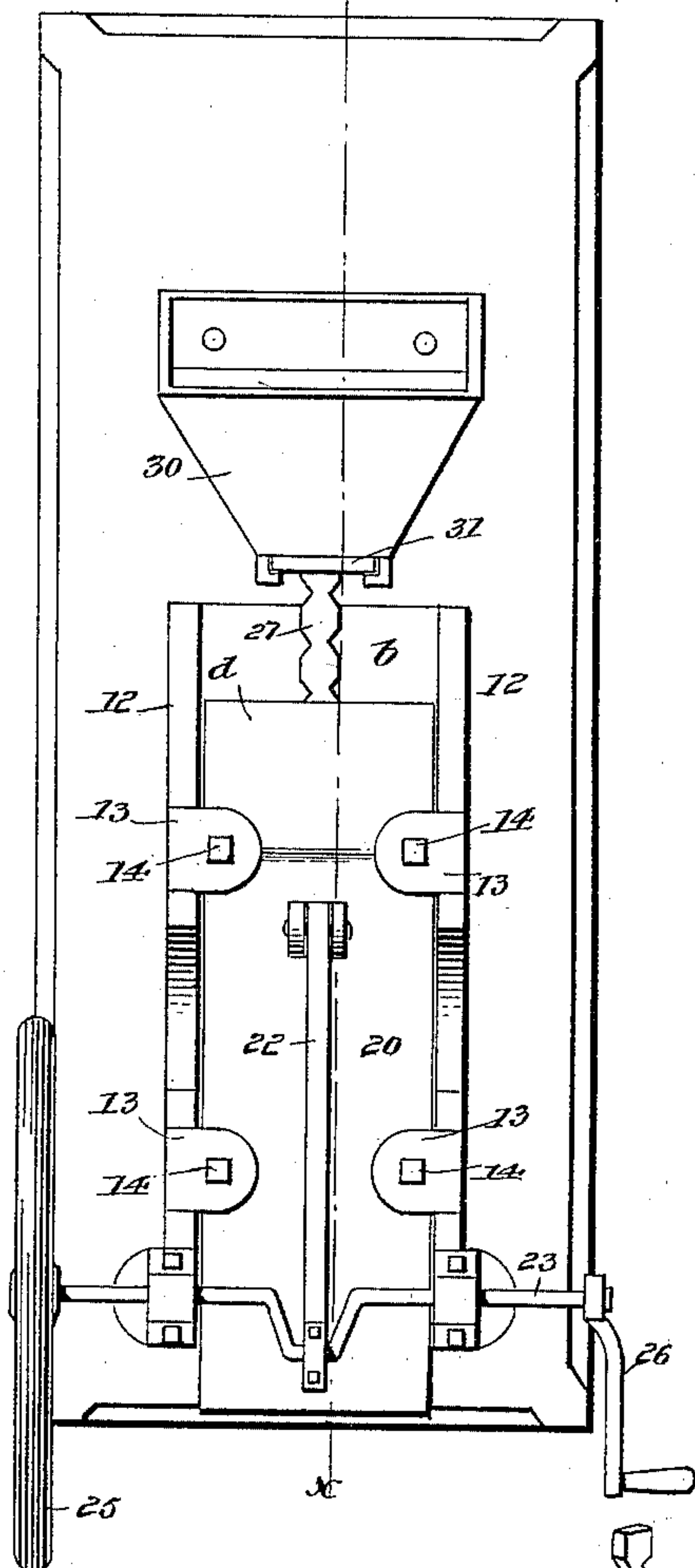


Fig. 2.

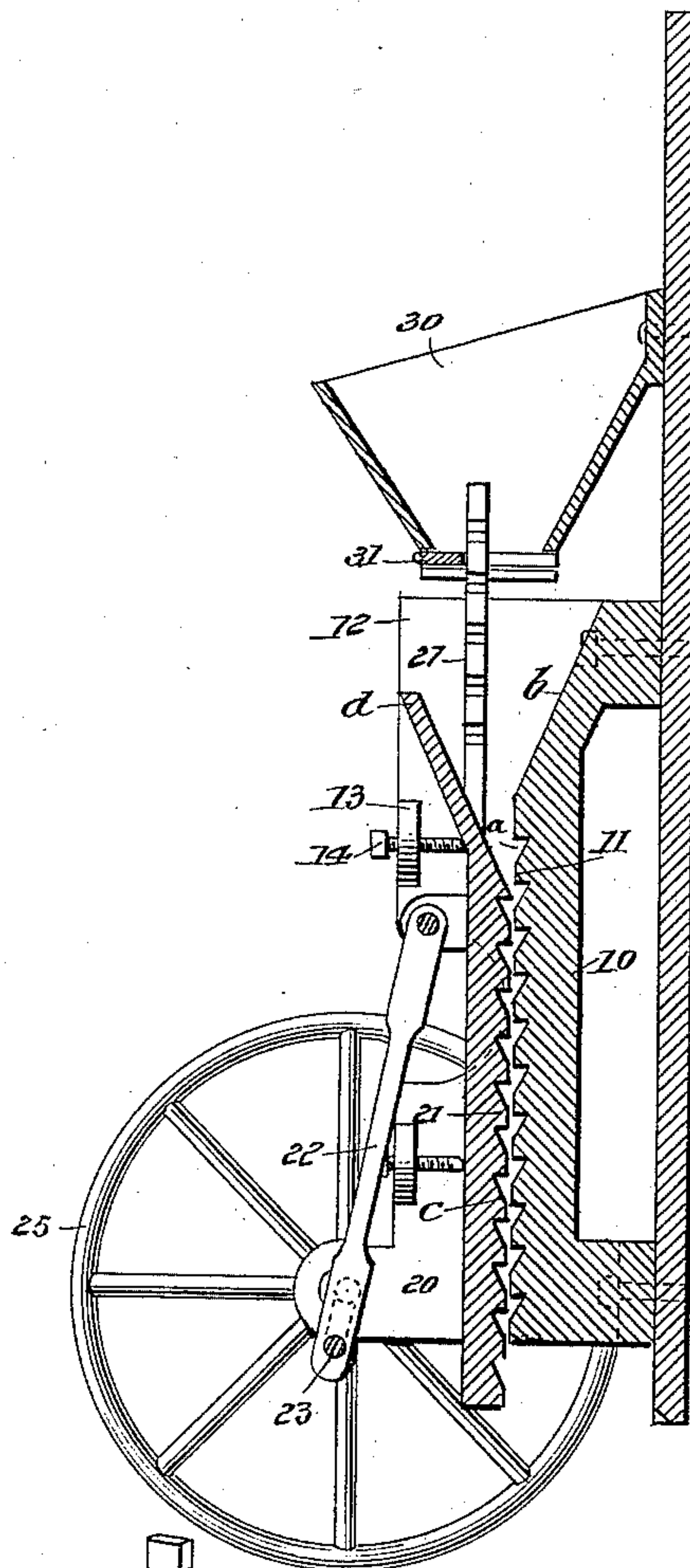


Fig. 3.

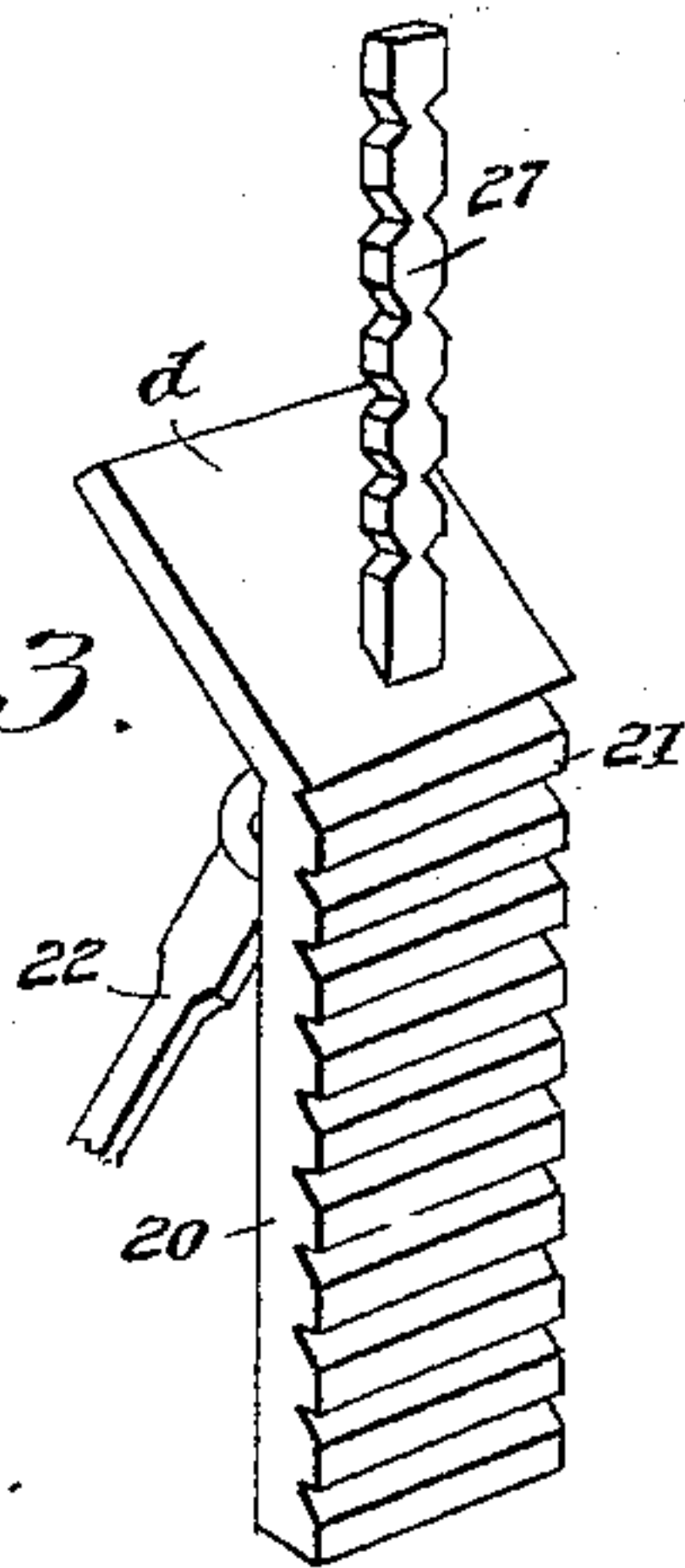
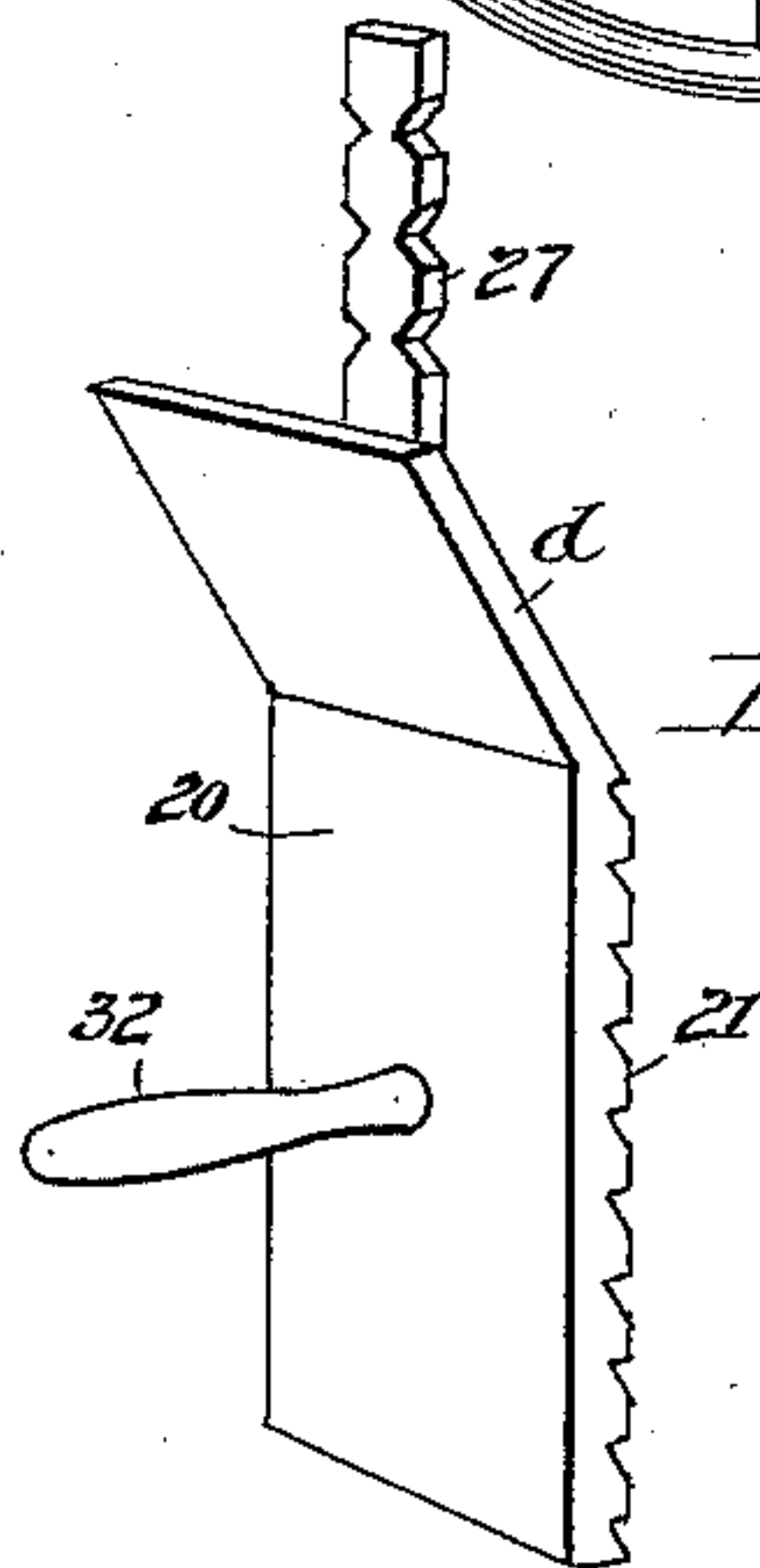


Fig. 4.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ARTHUR A. BOURGEOIS, OF ARIEL, LOUISIANA.

## RICE-HULLING MACHINE.

SPECIFICATION forming part of Letters Patent No. 409,905, dated August 27, 1889.

Application filed January 22, 1889. Serial No. 297,173. (No model.)

*To all whom it may concern:*

Be it known that I, ARTHUR A. BOURGEOIS, of Ariel, in the parish of La Fourche and State of Louisiana, have invented a new and Improved Rice-Hulling Machine, of which the following is a full, clear, and exact description.

The object of my invention is to provide a simple, cheap, and durable rice-hulling machine; and to the end named the invention consists of the peculiar construction and arrangement of parts, as will be hereinafter fully described, and specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a face view of my improved rice-hulling machine. Fig. 2 is a cross-sectional view thereof, the view being taken on line *xx* of Fig. 1. Fig. 3 is a perspective view of the movable plate, and Fig. 4 is a perspective view of a modified form of plate.

In constructing the machine forming the subject-matter of this application I provide a bed-plate 10, having transverse ribs 11, the upperfaces of said ribs being inclined, as shown at *a*. To the sides of this bed-plate 10, I bolt side plates 12, that are formed with lugs or ears 13, adapted to receive adjusting-screws 14, as many of these lugs or ears being provided as may be deemed necessary or advisable. Above the ribbed or roughened portion of the plate 10 there is an inclined section *b*, as shown best in Fig. 2.

In advance of the plate 10, I mount a plate 20, having ribs 21, the upper faces of said ribs being inclined, as shown at *c*, and to this plate 20 there is pivotally connected a pitman 22, which extends to a crank-shaft 23, that is mounted in bearings formed at the lower ends of the side plates 12. Upon one end of the shaft 23, I mount a balance-wheel 25, and

upon the opposite end thereof a crank arm or handle 26. The upper end of the plate 20 flares outward, as shown at *d*, and to this flaring section there is connected an upwardly-extending arm 27, which enters a hopper 30, said hopper being provided with a slide 31, which may be moved so that any desired quantity of grain will be delivered from the hopper.

In operation a rotary motion is imparted to the shaft 23, which motion of the shaft will cause the reciprocation of the plate 20, and as the plate 20 is reciprocated the unhulled rice is allowed to drop from the hopper 30 into the space between the two plates 10 and 20, a proper feeding of the rice being secured by the agitator 27. To adjust the plate 20, the screws 14 are moved so as to carry the plate toward the plate 10, the position of the screws defining the space between the two plates, as will be readily understood.

In certain cases it might be desirable to dispense with the crank-shaft and to reciprocate the plate 20 by hand; and to this end I would at times provide such plate with a handle, such as the one shown at 32 in Fig. 4. In practice I would make the mills so that all parts could be duplicated.

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

The combination, with a corrugated plate 10, formed with an inclined face *b*, of a corrugated-faced plate 20, formed with an inclined section *d*, an agitator extending upward from the plate 20, a hopper that is entered by the agitator, a slide or trap arranged in connection with the hopper, a crank-shaft, and connections between the crank-shaft and the plate 20, substantially as described.

ARTHUR A. BOURGEOIS.

Witnesses:

FÉLICIE FOREST,  
ALCEST DANTIN.