

J. B. BASTIAN.
MACHINE FOR STUFFING CRUPPERS.
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Patented Sept. 30, 1913.

2 SHEETS—SHEET 1.

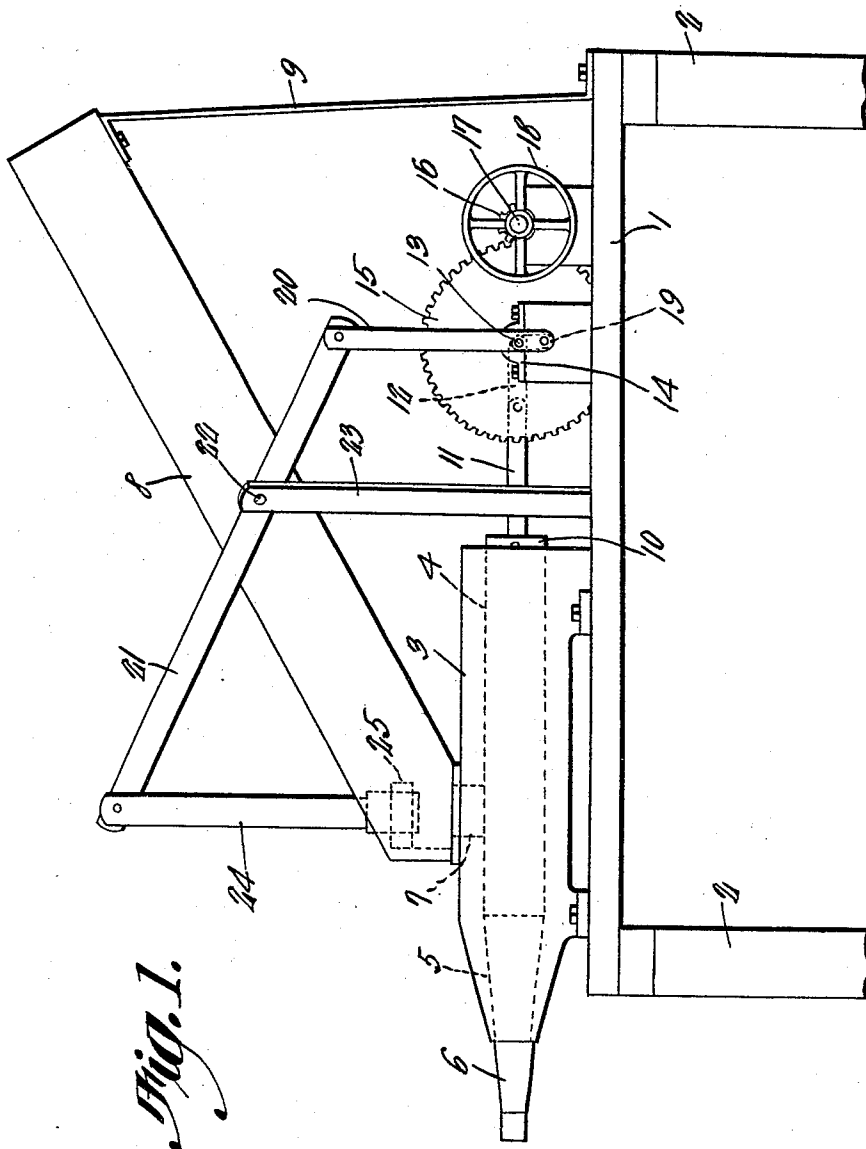


Fig. 1.

Witnesses

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2 SHEETS--SHEET 2.



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JOHN B. BASTIAN, OF NEOSHO, MISSOURI.

MACHINE FOR STUFFING CRUPPERS.

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Specification of Letters Patent.

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Application filed July 17, 1912. Serial No. 710,045.

To all whom it may concern:

Be it known that I, JOHN B. BASTIAN, a citizen of the United States, residing at Neosho, in the county of Newton and State of Missouri, have invented a new and useful Machine for Stuffing Cruppers, of which the following is a specification.

This invention relates to machines for stuffing cruppers, its object being to provide a simple and compact machine of this character which will operate efficiently to hold the end of a crupper open and, at the same time, to direct the filling into the crupper so that it will be held therein under pressure.

Another object is to provide a machine of this character which can be easily manipulated and by means of which the operation of filling or stuffing cruppers is greatly facilitated.

With the foregoing and others objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawings the preferred form of the invention has been shown.

In said drawings:—Figure 1 is a side elevation of the machine. Fig. 2 is a plan view thereof, a portion of the feed hopper being removed. Fig. 3 is a section on line A—B Fig. 2.

Referring to the figures by characters of reference 1 designates a table or base plate mounted on suitable supports 2 and on which is arranged a stuffer casing 3 which can be bolted or otherwise secured to the base plate 1 and has a passage 4 extending longitudinally therethrough, one end portion of the passage being preferably tapered, as shown at 5 and adapted to receive the threaded end of a nozzle 6. An opening 7 is formed in the top of the casing 3 at a point between the ends thereof and registers with the outlet of an inclined chute or hopper 8 which may be secured, at one end, upon the casing 3 and, at its other end, upon a standard 9 extending upwardly from the base plate.

A piston 10 is mounted to reciprocate within the casing 3 and one end thereof is

connected, by means of a pitman 11, to a crank 12 carried by a shaft 13. This shaft extends transversely of the plate 1 and is journaled in suitable bearings 14. A gear 15 is mounted on the shaft and receives motion, through a smaller gear 16, from a drive shaft 17 to which a pulley 18 is secured. Another crank 19 is arranged preferably at one end of the shaft 13 and is connected, by means of a pitman 20, to a walking beam 21 fulcrumed, as at 22, upon a standard 23. A plunger 24 is pivotally connected to one end of the walking beam and its lower end is mounted within a guide 25 within the lower portion of the chute or hopper 8 whereby the plunger is held centered at all times above or within the opening 7.

The cranks 12 and 19 are so arranged that when the piston 10 is in its innermost position in the casing 3, the plunger 24 is elevated and, when the plunger 24 is in its lowermost position, the piston 10 is withdrawn from under the opening 7. Thus it will be seen that by placing filling material within the hopper or chute 8 it will gravitate to the opening 7 and, when the shaft 13 is rotated, plunger 24 will force a portion of the filling material downwardly through the opening 7 and into the casing 3 so as to lie in the path of the piston 10. As the plunger moves upwardly from the casing 3, the piston 10 moves forward and forces the filling material longitudinally within casing 3 and into the tapered portion 5 of the passage 4 and, finally, into and through the nozzle 6. By forcing one end of a crupper onto the outer end of the nozzle, said end of the crupper will receive the filling material discharged from the nozzle. By then removing the crupper and placing its other end in engagement with the outer end of the nozzle 6, said end will, upon the next delivery stroke of the piston 10, be filled with the material fed to the casing 3 in the manner hereinbefore described. Thus it will be seen that by means of this machine both ends of a crupper can be quickly and compactly filled without requiring the services of a skilled mechanic.

By removing the nozzle 6, the casing and nozzle can be cleaned readily.

What is claimed is:—

A machine for stuffing cruppers, including a casing having an inlet in the top thereof, one end of the casing being tapered, a crupper engaging nozzle removably mounted

within said tapered end, a piston mounted
to reciprocate within the casing and to suc-
cessively open and close the inlet, a hopper
for directing material into the inlet, a plun-
5 ger mounted for reciprocation above the in-
let and within the hopper, a walking beam
connected to the plunger, a shaft, and sepa-
rate means operated by the shaft for actu-
ating the walking beam and the piston, said
10 plunger constituting means for directing

material through the inlet and into the path
of the retracted piston.

In testimony that I claim the foregoing as
my own, I have hereto affixed my signature
in the presence of two witnesses.

JOHN B. BASTIAN.

Witnesses:

NORVAL CRUMBLISS,
GEO. CRUMBLISS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."