

W. F. GRILL.
 PATTERN STRIPPING MACHINE.
 APPLICATION FILED JULY 27, 1911.

1,024,890.

Patented Apr. 30, 1912.

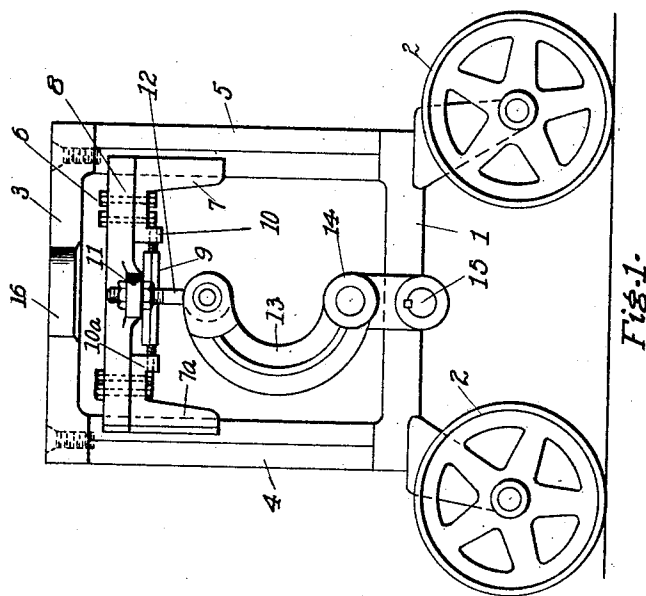


Fig. 1.

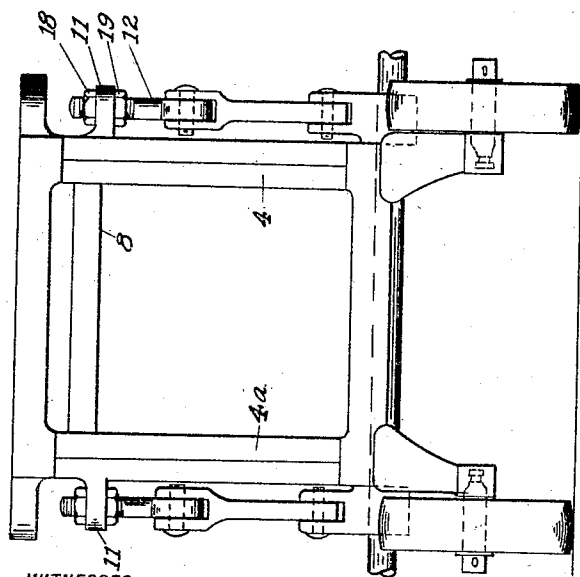


Fig. 2.

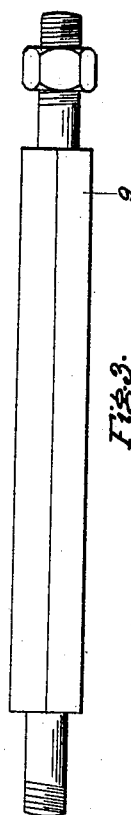


Fig. 3.

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PATTERN-STRIPPING MACHINE.

1,024,890.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM F. GRILL, citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Pattern-Stripping Machines, and declare the following to be a full, clear, and exact description of the same, such as it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to pattern stripping mechanism.

It has for its object an improved device to withdraw downward the pattern around which a mold has been made. A special object of the improvement being to produce a reciprocating member having an adjustable engagement with the vertical posts which hold the flask in order that the reciprocating member may be adjusted from time to time to engage closely upon the track.

In the drawings:—Figure 1, is a side elevation. Fig. 2, is a front elevation. Fig. 3, is a detail of the turn buckle by which adjustment is made.

In the frame of the machine the bed plate 1 is mounted upon wheels 2; a stripping plate 3 is supported above the bed plate on posts 4 and 5, 4^a, and a fourth post (not shown in the drawings). The movable plate 8 to which the pattern is secured rests upon slidable brackets 7, 7^a that engage against the posts 4 and 5, 4^a and the companion post to 5. Preferably the posts are rectangular in cross section and are arranged with one diagonal of the rectangular cross section of each post parallel with the axles of the wheels 2 and one diagonal of the rectangular cross section of each post at right angles to the axles of the wheels 2. This brings an angle of the post into engagement with a rectangular groove in the bracket 7, and an angle of the post 4 into engagement with a rectangular groove of the bracket 7^a. The horizontal arm of each bracket is provided with holes through which bolts 6 engage to secure the bracket to the movable plate 8, the holes in one or the other of these members being oval to permit of a slight adjustment of the brackets with respect to the plate. The brackets 7 and 7^a between posts 4 and 5 are tied to-

gether by a turn buckle 9 having a right hand screw cut on one end and a left hand screw cut on the other end thereof, and these engage through hanging threaded lugs 10 and 10^a.

The plate 8 is provided with ears 11 through which engage actuating pitman 12 pivotally connected to a link 13, which link 13 is pivotally connected to a crank arm 14 on shaft 15. The shaft 15 is keyed to the crank arm 14; the half rotation of this shaft draws the plate 8 down to the limit of its lower travel and the return movement to the position shown in Fig. 1 lifts it to the uppermost limit of its travel. The pattern (not shown) rests on the plate 8 and projects through the opening 16 to the space above the stripping plate 3. The amount of projection of the pattern above the stripping plate 3 is regulated by the pitman 12 which engages through the ears 11 and may be adjusted by means of nuts 18 and 19. The adjustment to prevent any improper side motion is effected by means of the turnbuckle 9. The constant reciprocation of the plate 8 and the brackets connected with it along the posts wear the sliding surfaces rapidly, such wear is provided for by making the brackets adjustable by means of the turnbuckle and the movable brackets, the rectangular form of the posts and their angular relation to the frame co-acting with the rectangular reëntering groove in the brackets effect complete provision for this purpose. In use the plate 8 is adjusted on the pitman 12 to bring the parting lines of the pattern in use to the proper place when the plate 8 is at the extreme upper limit of its throw.

What I claim is:—

1. A pattern stripping machine, having in combination a stripping plate supported in a fixed position, a vertically movable plate arranged thereunder and adapted to support a pattern, vertical guides, brackets adapted to run on said guides and connected with said movable plate by bolts engaging in slots, and a turn buckle adapted to connect two brackets and adjust the same with respect to their guides, substantially as described.

2. A pattern stripping machine, having in combination a stripping plate supported in fixed position, a vertically movable plate ar-

ranged thereunder and adapted to support
a pattern, vertical guides, brackets adapted
to run on said guides and provided with a
slidable connection with said plate, and a
5 turnbuckle adapted to connect two brackets
and adjust the same with respect to their
guides, substantially as described.

In testimony whereof, I sign this specification in the presence of two witnesses.

WILLIAM F. GRILL.

Witnesses:

CHARLES F. BURTON,
VIRGINIA C. SPRATT.