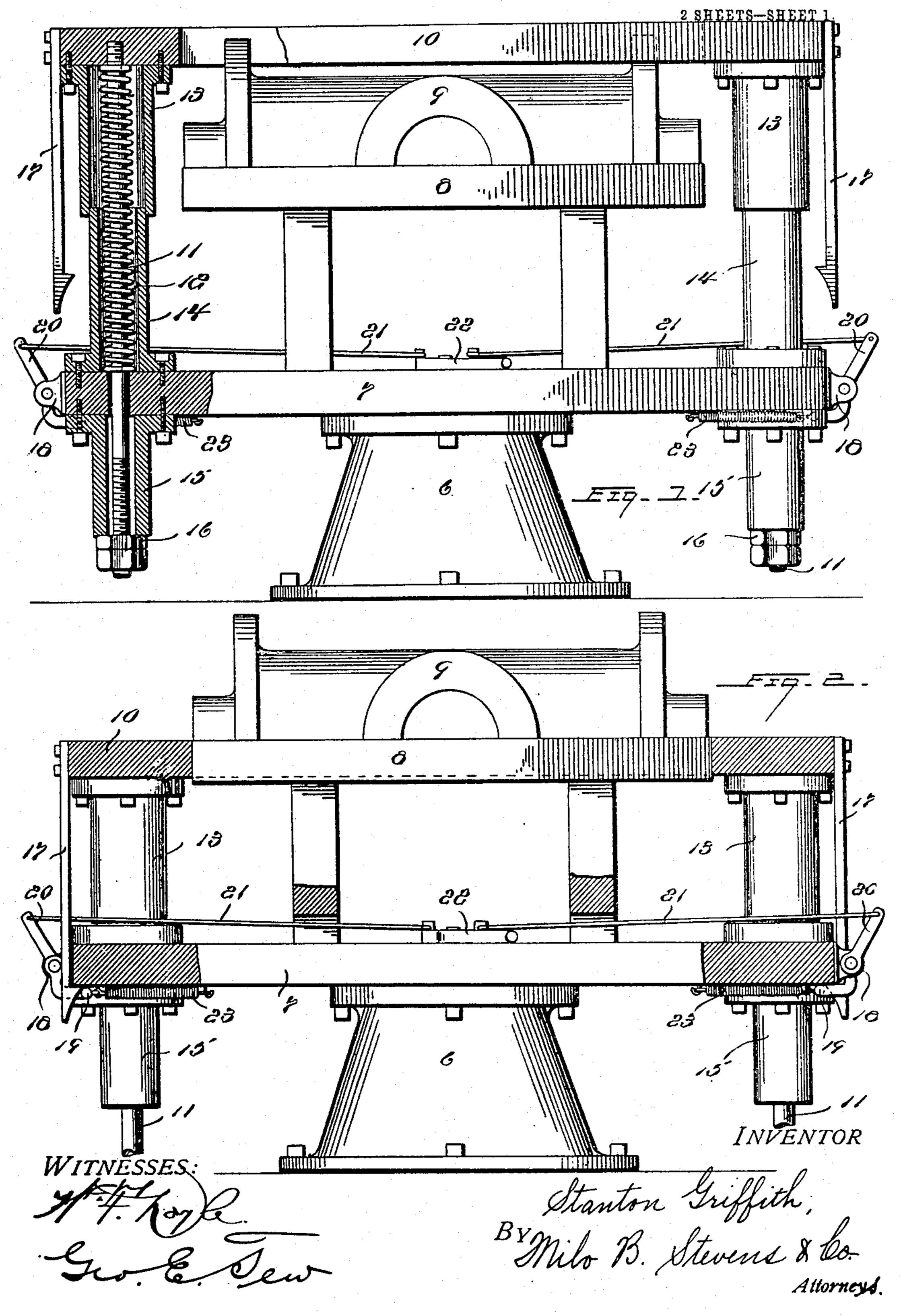
PATENTED JULY 10, 1906.

S. GRIFFITH. MOLDING MACHINE.

APPLICATION FILED SEPT. 28, 1905.



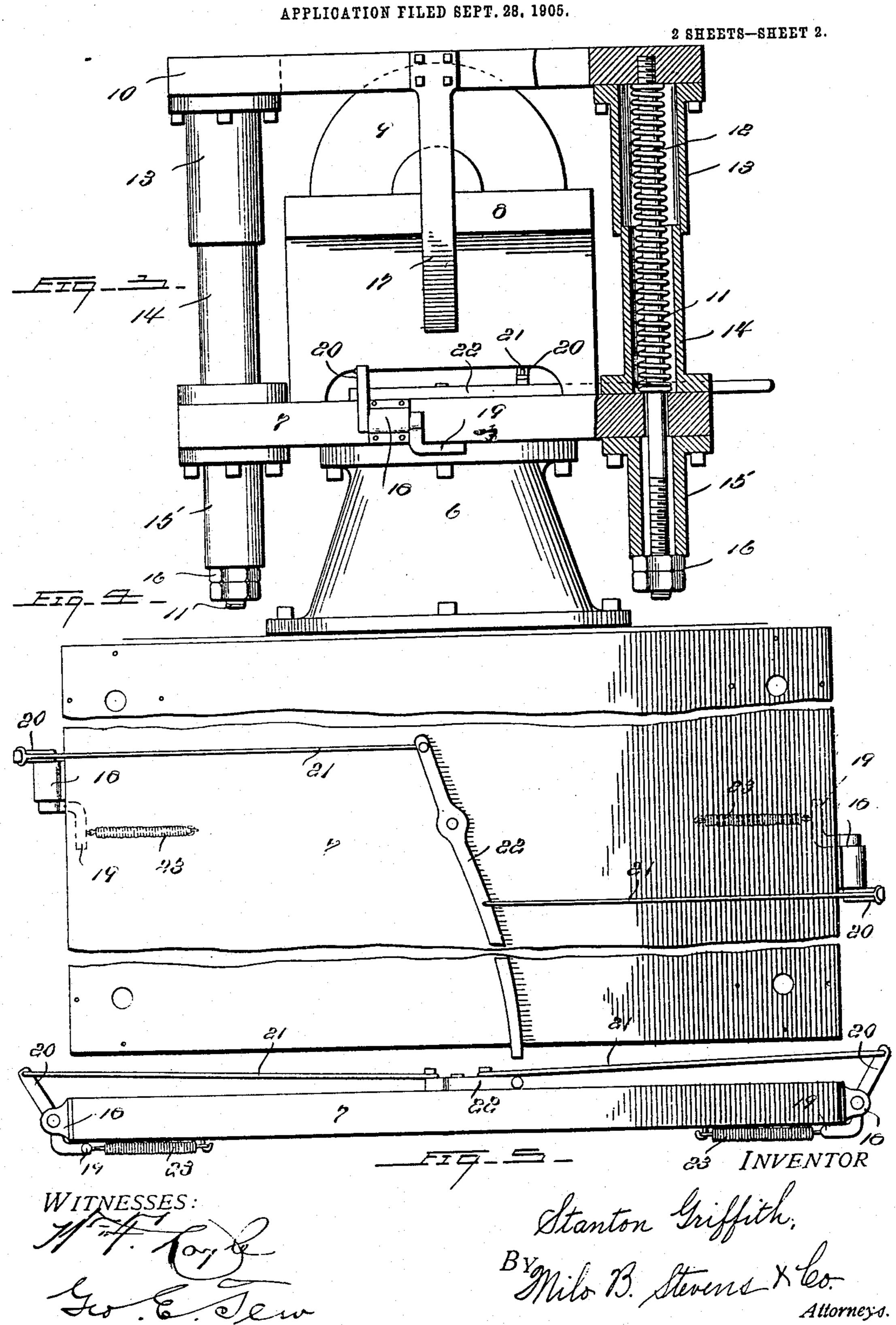
HE NORRIS PETERS CO., WASHINGTON, D. C.

Wording apparatery. Mold lifting,

No. 825.824.

PATENTED JULY 10, 1906.

S. GRIFFITH. MOLDING MACHINE.



UNITED STATES PATENT OFFICE.

STANTON GRIFFITH, OF BELOIT, WISCONSIN.

MOLDING-MACHINE.

No. 825,824.

Specification of Letters Patent.

Patented July 10, 1906.

Application filed September 28, 1905. Serial No. 280,551.

To all whom it may concern:

Be it known that I, STANTON GRIFFITH, a citizen of the United States, residing at Beloit, in the county of Rock and State of 5 Wisconsin, have invented new and useful Improvements in Molding-Machines, of which

the following is a specification.

This invention is a machine used for making sand molds for castings, and comprises 10 means for supporting a pattern in the flasksection and for stripping same therefrom, the stripping-plate being spring-actuated to . lift the flask-section from the pattern when the mold is completed. Improved means 15 are provided for holding the stripping-plate and flask-section thereon down to the pattern when molding and for releasing said means and allowing the springs to lift the strippingplate when the mold is ready.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, of the machine with the stripping-plate raised. Fig. 2 is a similar view with the stripping-plate pressed down. Fig. 3 is an end elevation, 25 partly in section. Fig. 4 is a plan showing the trips and lever for releasing the spring-

catches. Fig. 5 is an edge view of the same. Referring specifically to the drawings, 6 indicates a base upon which the machine is sup-30 ported. Mounted upon the base is a baseplate 7, upon which is blocked up and supported the pattern-plate 8, carrying the pattern 9. The stripping-plate is indicated at 10 and receives the flask-section thereon. 35 The stripping-plate has the usual opening

or retracted. Depending from the strippingplate, preferably at the corners thereof, are long bolts 11, around which are coiled springs 40 12 in compression between the under side of the stripping-plate and the upper side of the base-plate 7. These bolts and springs are inclosed in tubular telescoping casings formed

through which the pattern may be advanced

of sections 13, fixed to the under side of the 45 stripping-plate, and sections 14, fixed to the upper side of the base-plate, and these tubes act as guides for the up-and-down movement of the stripping-plate, and so keep the same true and in exact position with respect to the 50 pattern. Secured to the under side of the

base-plate 7 are tubular guides 15, which are in line with the guides above mentioned and through which the bolts 11 work. Said bolts carry stop-nuts 16, which strike the ends of 55 the tubes 15, and thus stop the lift of the

stripping-plate.

Depending from the ends of the strippingplate 10 are spring-catches 17, which are preferably located to snap and hook under the ends of the base-plate 7. These catches 60 are disengaged from the base-plate by means of trips, each of which consists of a cranked rod, which swings in a fixture 18, one end 19 of the rod being located under the end of the base-plate in position to lie behind the hook 65 when the same is engaged and the other end 20 projecting upwardly and connected by a wire 21 to a trip-lever 22. Springs 23, connected to the arms 19, serve to retract the trips.

In the operation of the machine the flasksection—either the cope or the drag—is placed on the stripping-plate and forced down therewith, compressing the springs 12 and engaging the spring-catches under the base- 75 plate. This holds the stripping-plate and flask-section down, with the pattern projecting through the hole in the stripping-plate and into the flask. The sand is then put in. When the mold is complete, the trip-lever 22 80 is thrown, causing the trips to disengage the catches, allowing the springs to raise the stripping-plate and flask and to clear the pattern, which remains stationary.

The device being spring-actuated dispenses 85 with all outside power for effecting the stripping operation. Adjustment to limit the lift of the stripping-plate may be effected by changing the stop-nuts 16. The springs and guides are inclosed and protected from sand, 90 as shown. The machine is shown with four springs and guides; but this number may be increased, if desired.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a molding-machine, the combination with a base and fixed pattern-plate thereon, of a stripping-plate slidable up and down in guides on the base, and having catches engageable with the base to hold the stripping- 100 plate down, and springs tending to lift said plate.

2. In a molding-machine, the combination with a base having a pattern-holder thereon, of a stripping-plate movable up and down 105 over the pattern, tubular guides between the base and stripping-plate, springs coiled in said guides and tending to lift said plate, and catches engageable between said base and plate, to hold the latter down.

3. In a molding-machine, the combination with a base-plate having a pattern-holder

thereon, of a stripping-plate movable up and down over the pattern, tubular telescoping guides between said plate and base, bolts extending downwardly from said stripping-5 plate and through the guides and the base-plate and having stops on the under side thereof, springs coiled around the bolts in the guides and tending to lift the stripping-plate, and catches engageable between said plate and the base.

4. In a molding-machine, the combination with a pattern-supporting base-plate, and a spring-actuated stripping-plate movable up

and down over the same, of catches carried by the stripping-plate and engageable with 15 the base-plate to hold the former down, and means to simultaneously disengage the catches.

In testimony whereof I have signed my name to this specification in the presence of 20 two subscribing witnesses.

STANTON GRIFFITH.

Witnesses:

T. D. WOOLSEY, BENJAMIN FOSSE.