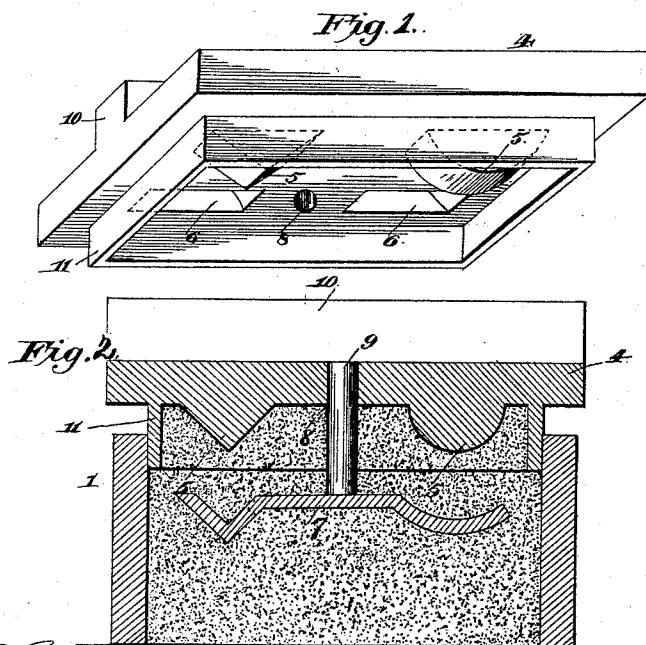


(No Model.)

G. J. KEENAN.
PRESS BOARD FOR MOLDING MACHINES.

No. 489,013.

Patented Jan. 3, 1893.



Witnesses

M. E. Fowler
J. D. Tiggers

Inventor

George J. Keenan

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

GEORGE J. KEENAN, OF BUFFALO, NEW YORK.

PRESS-BOARD FOR MOLDING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 489,013, dated January 3, 1893.

Application filed June 5, 1891. Serial No. 395,227. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. KEENAN, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Press-Board for Molding-Machines, of which the following is a specification.

This invention relates to press boards for molding machines for the purpose of compressing the sand around the patterns that have been placed in flasks for molding, and it has for its object to provide a press board by the use of which the sand may be compressed evenly around or against the pattern or patterns, and be tucked around the same as perfectly as it might be done by hand.

My invention consists in the improved construction of the said press board which will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings hereto annexed—Figure 1 is a perspective view of my improved press board. Fig. 2 is a vertical sectional view showing the latter in position for operation. Like numerals of reference indicate like parts in both the figures of the drawings.

This press board is especially adapted to be used in connection with an improved flask which has been made the subject of a separate application for Letters Patent Serial No. 395,226. Said flask, which is designated by 1, receives the press board 4, which may be of any desired size provided that it is larger than the flask and projects beyond the edges of the latter. The press board is provided on its under side with projections 5 and with recesses or concavities 6, which are made to correspond with any recesses or projections of the pattern 7 which has been placed in the flask as will be readily seen in the drawings. The press board is also provided with perforations 8 to admit of the passage of the sprues 9 which are attached to, or form part of the pattern from which they project upwardly through the flask and mold so as to avoid the necessity of subsequently gouging the gates or pour holes.

The press board is provided with an integral handle 10, by which it may be mounted in a machine of suitable construction by means of which it may be operated to force it downwardly against the flask, the sand in which is thus compressed around the pattern. The projections and recesses on the under side will serve to pack the sand evenly

around the pattern as will be readily understood and the screw or sprues will extend through the perforations formed in the press board for their passage.

As illustrated, the press board is further provided on its under side with an integral downwardly extending rectangular flange 11, adapted to fit within a flask 12 of ordinary construction, said flange being arranged within the outer edge of the press-board, so that the outer edge of the press-board overlaps and contacts with the upper edge of the flask and thus limits the movement of the press-board, such construction providing an off stand integral stop ledge.

The entire press board is made of a single piece and also provided with the projections 5 and recesses or concavities 6. In use the flange 11 serves to cut or press the sand at the edges of the flask against the pattern in the same manner as the sand is usually tucked by the operator either with his fingers or with the peener sometimes employed.

It is obvious that the projections 5 and recesses or concavities 6 of the press board are in all instances to conform to the pattern; hence it is evident that in some instances projections alone, and in other instances recesses only will be used.

Having thus described my invention, what I claim is—

The combination of a flat press-board, for comprising the sand in molders flasks, provided with an integral handle, an irregular under surface, vertical perforations therein, and an integral downwardly-extending rectangular flange adapted to snugly register with the inner diameter of the flask and arranged in from the outer edges of the board to leave an integral stop ledge adapted to overlap and contact with the upper edge of the flask and limit the play of the board, and the pattern within the flask conforming to the irregular under surface of the press board and provided with upwardly extending sprues adapted to work through the vertical perforations in the press board, substantially as set forth.

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

GEORGE J. KEENAN.

Witnesses:

ELLIS KEENAN, Jr.,
C. E. SHEPHERD.