C. P. WHISLER.

MOLD.

APPLICATION FILED MAR. 24, 1919.

1,343,425. Patented June 15, 1920.

Fig. 1.

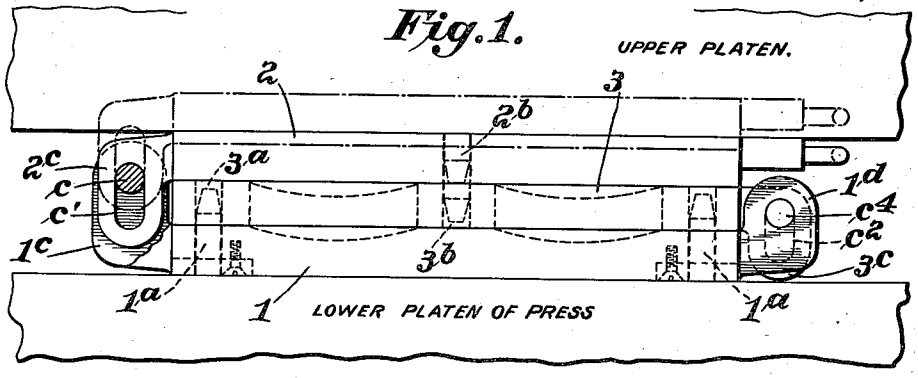


Fig. 2.

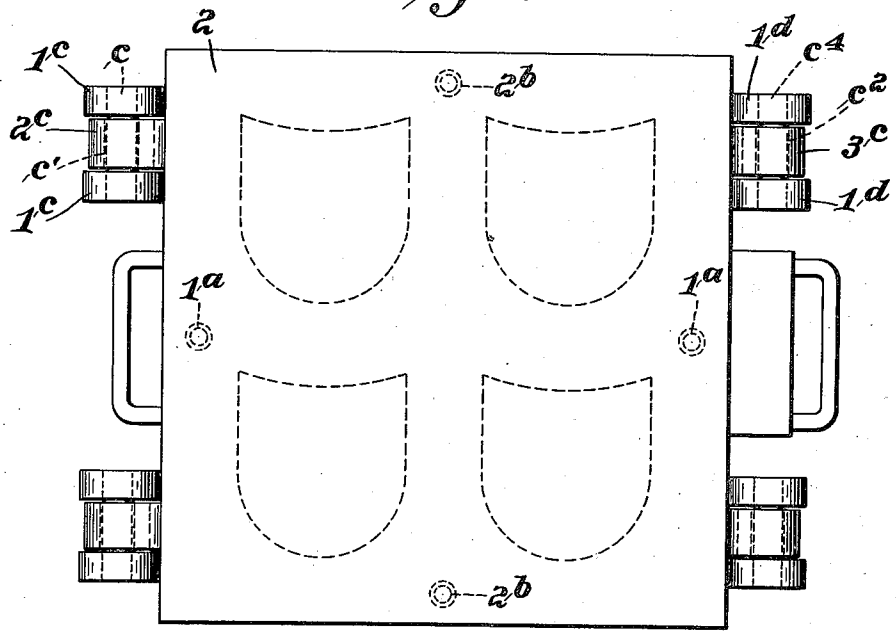
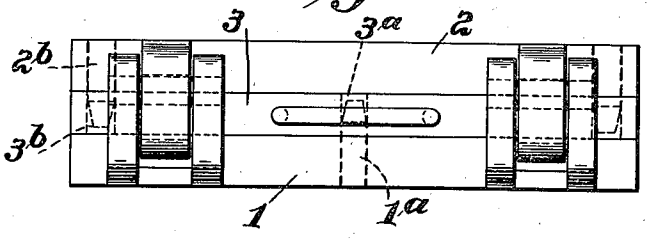


Fig. 3.



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UNITED STATES PATENT OFFICE.

CHAUNCY PURLEE WHISLER, OF AKRON, OHIO, ASSIGNOR TO MILLER RUBBER COMPANY, OF AKRON, OHIO, A CORPORATION OF OHIO.

MOLD.

1,343,425. Specification of Letters Patent. Patented June 15, 1920.

Application filed March 24, 1919. Serial No. 284,712.

To all whom it may concern:

Be it known that I, CHAUNCY P. WHISLER, a citizen of the United States, resident of Akron, Ohio, have invented certain new and useful Improvements in Molds, of which the following is a specification.

My present invention relates to improvement in molds and is designed more especially for use in connection with molds used for vulcanizing rubber articles; though not limited in its application to this specific use.

Heretofore such molds have been made of a plurality of independent and unconnected parts and difficulty has been experienced with them, not only in the misplacing of parts, but the dragging of one part across the face of another, or the dropping of some thereon thereby scoring the molds resulting in defective goods.

The present invention aims to avoid this difficulty and to this end comprises the novel construction and arrangement and combination of parts hereinafter described and defined by the appended claims, an embodiment of my invention being illustrated in the accompanying drawing in which,

Figure 1 is a side elevation partly in section of a three part mold constructed in accordance with my invention and,

Fig. 2 is a top plan view and Fig. 3 is an end view.

Referring by reference characters to this drawing which shows as a convenient example a mold for forming rubber heels for boots and shoes, the numeral 1 designates a lower mold section, 2 an upper mold section, and 3 an intermediate mold section or center plate.

As is customary with such mold sections or plates dowel pins are provided carried by one plate or plates and entering corresponding openings in the adjacent plate or plates to insure perpendicular movement in the closing of the molds and also to secure proper alinement of the mold cavities. In the form shown the mold section or plate 1 has dowel pins 1^a which enter corresponding recesses 3^a in the center plate or section, and the upper plate 2 has dowel pins 2^b which enter similar recesses 3^b in the section or plate 3.

Plate 1 has a pair of ears or lugs 1^c which are connected by loose hinge connections with corresponding lugs 2^c on the upper section, the hinge connection serving to permanently connect and unite such parts and the loose or lost motion connections affording the necessary rectilinear movement perpendicular to the plane of the mold to allow the dowel pins to enter and leave their coacting recesses.

In the preferred embodiment shown in the drawings the loose hinge connection is provided by having hinge pins c on one of the lugs (for example 1^c) engaging vertically elongated slots c' in the other member, the slots being of sufficient length to allow the bodily vertical movement of the upper section to clear the pins from the recesses whereafter the section may be swung back out of the way.

In a similar manner the intermediate or central section 3 may be provided with lugs 3^c having slots c^2 to receive pins c^4 on ears 1^d on the opposite side of the lower section, so that the parts 2 and 3 swing outwardly in opposite directions.

What I claim is:

1. A mold having a plurality of parts hinged together, one of said parts having dowel pins perpendicular to the face of the mold part and the other corresponding openings to receive said dowel pins, said hinge having a lost motion connection permitting a rectilinear movement of the parts relative to each other and perpendicular to the plane of the mold in the opening and closing of the mold.

2. A mold comprising a pair of sections having means insuring a perpendicular rectilinear movement of the sections when in alinement and in proximity to each other, said sections having overlapping lugs at one side thereof, one set of lugs having recesses elongated in a direction perpendicular to the plane of the mold, and the other set of lugs having hinge pins seated in said recesses.

3. A mold comprising a pair of sections hinged together, one of said sections having recesses perpendicular to the plane of the mold, perpendicular dowel pins carried by the other part coacting with said recesses, and a hinge connection between said sections having a lost motion sufficient to enable one section to be lifted vertically to clear the pins

from the recesses prior to swinging the section on its hinge.

4. A three part mold comprising a bottom member, a top member, and an intermediate member, said top and intermediate members being independently hinged to said bottom section by lost motion hinge connections.

5. A three part mold comprising a bottom section, a top section and an intermediate section, said intermediate and top sections being hinged respectively to opposite sides of the bottom section by lost motion hinge connections.

In testimony whereof I affix my signature.

CHAUNCY PURLEE WHISLER.