

No. 725,481.

PATENTED APR. 14, 1903.

G. RADER.
PARTITION FOR MOLD FLASKS.

APPLICATION FILED JAN. 20, 1903.

NO MODEL.

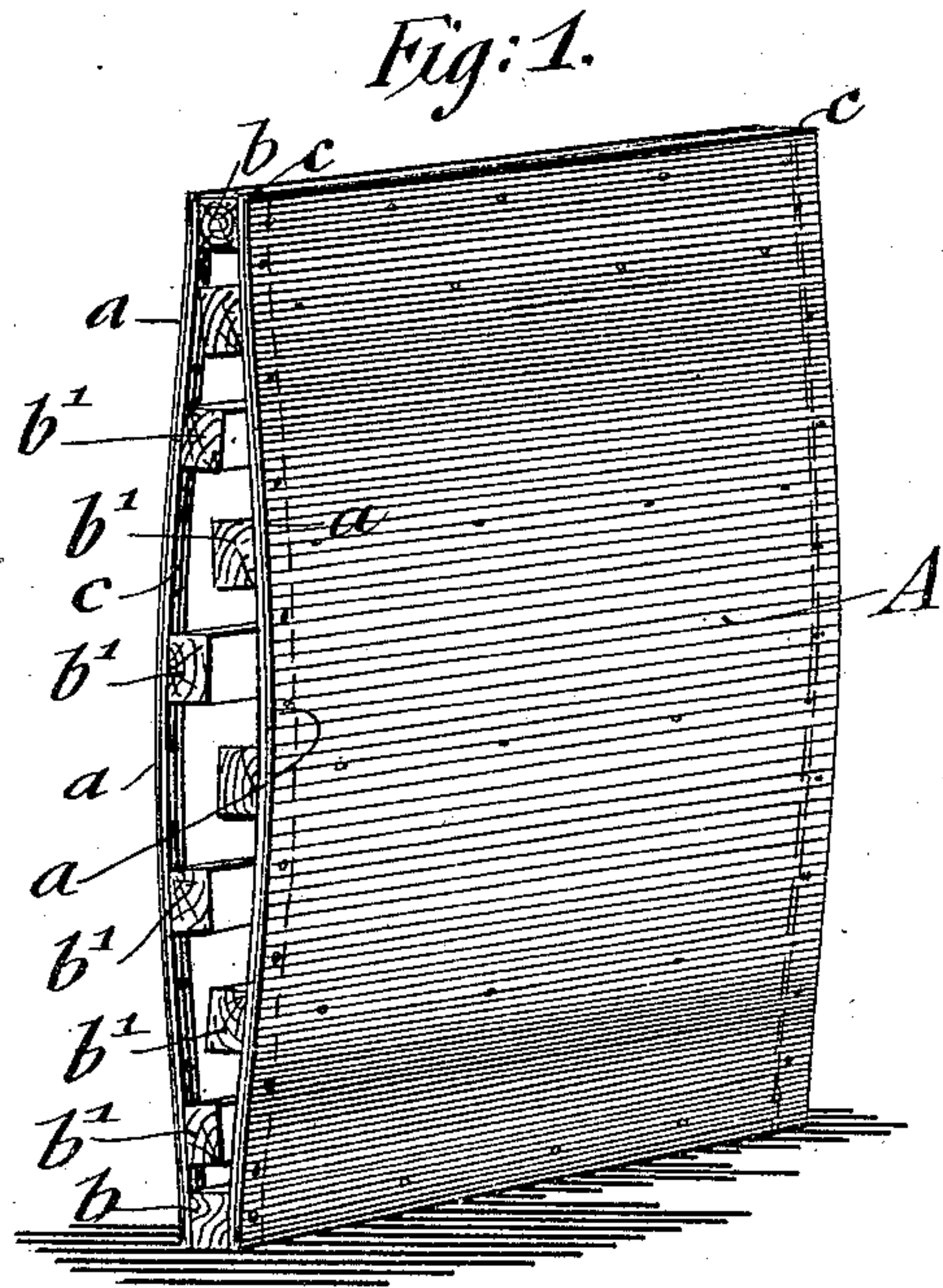


Fig: 2.

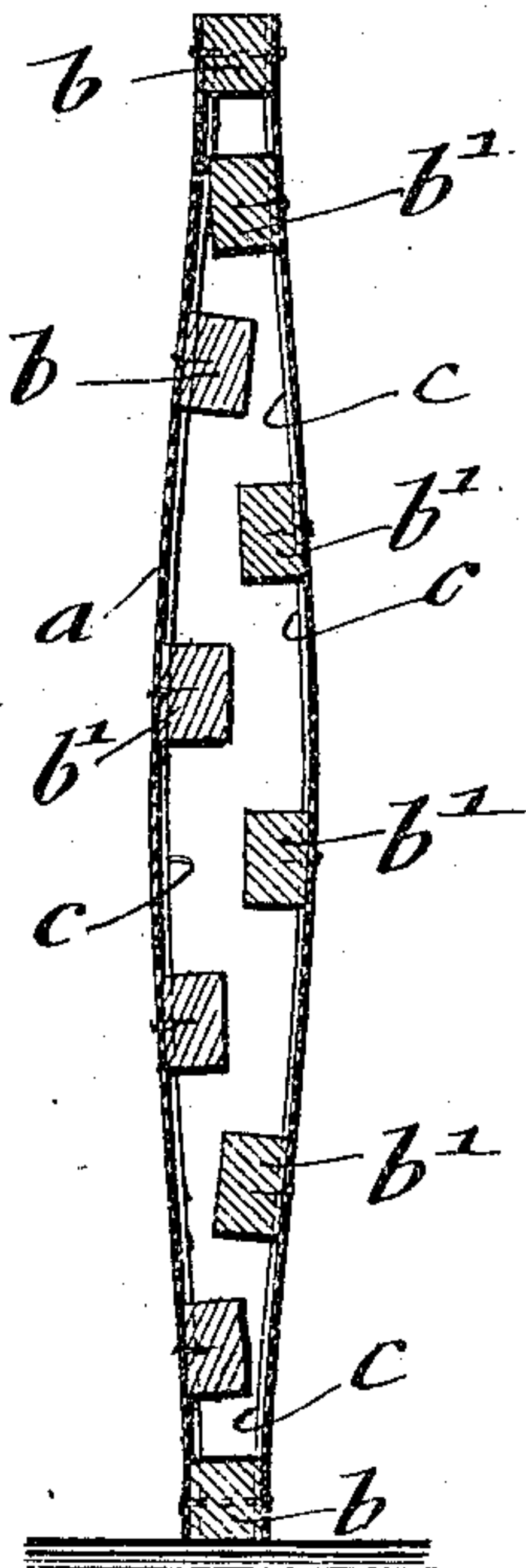


Fig: 3.

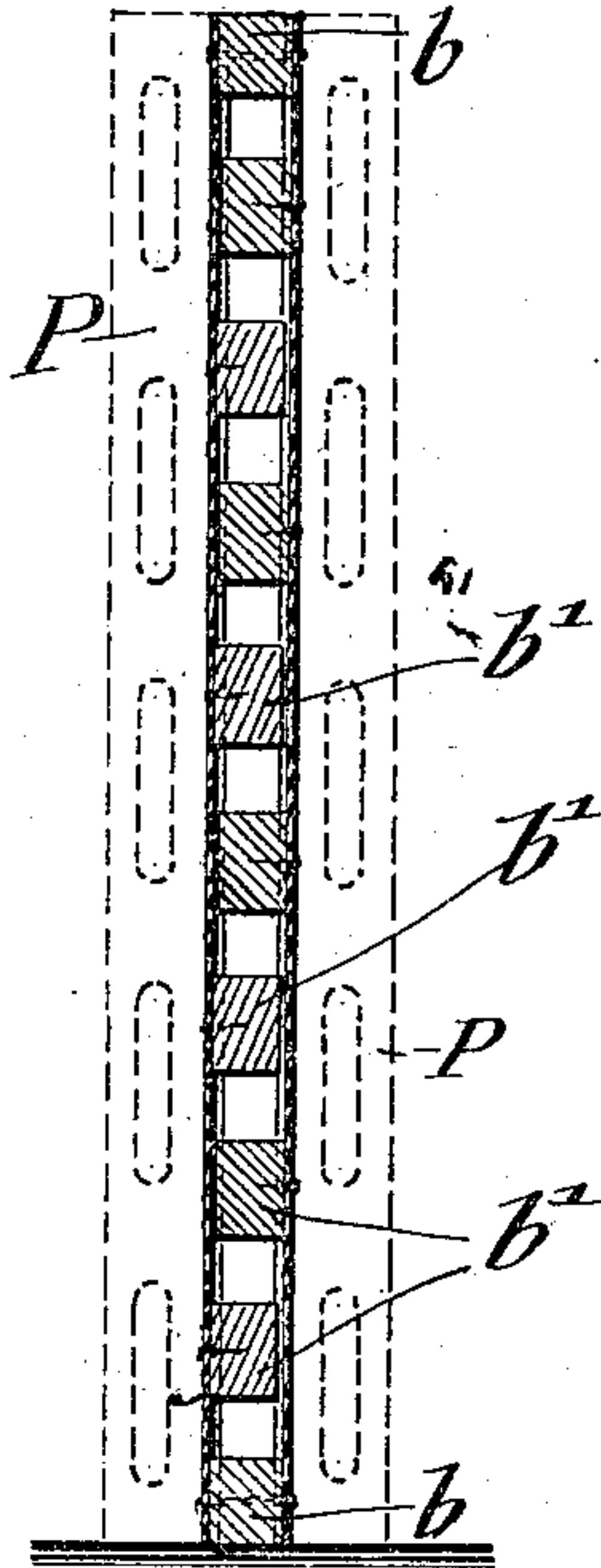
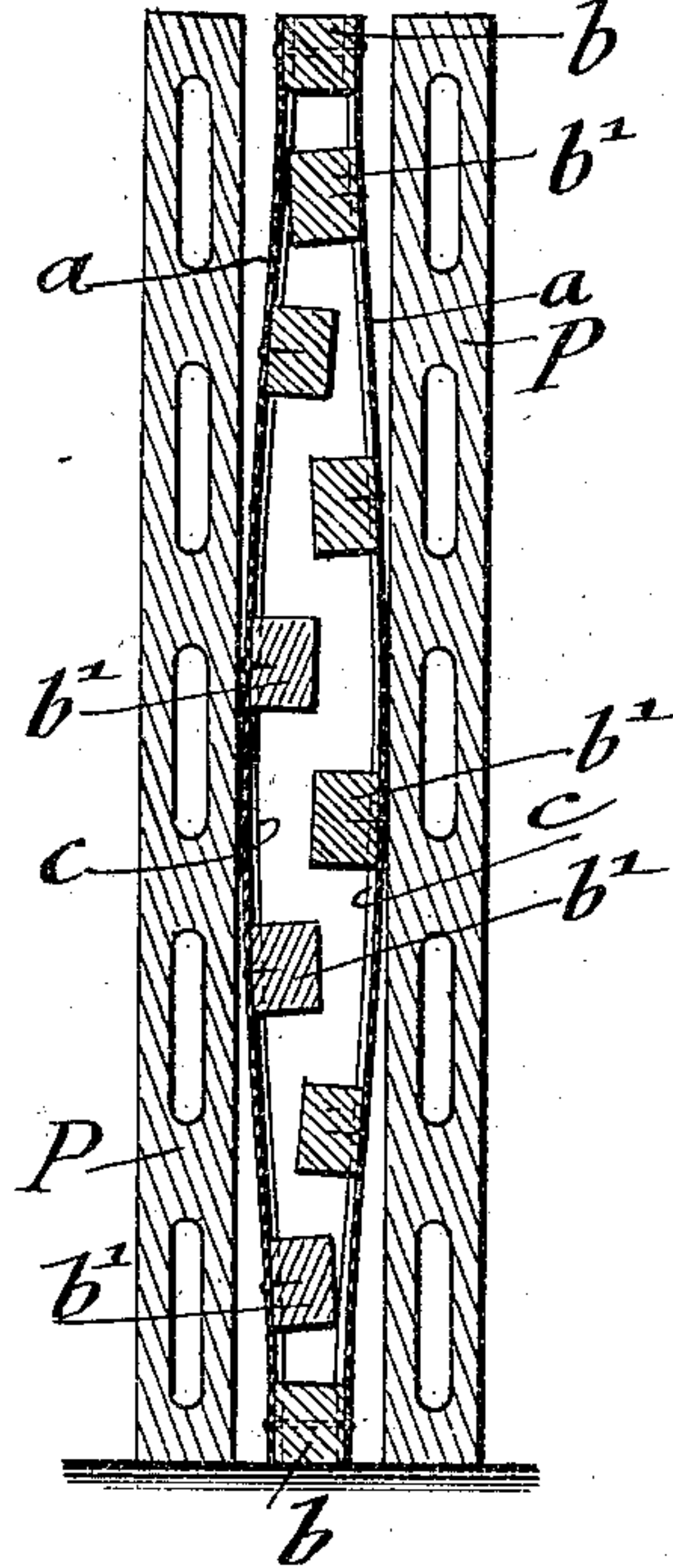


Fig: 4.



Witnesses
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UNITED STATES PATENT OFFICE.

GUSTAVE RADER, OF MONTCLAIR, NEW JERSEY.

PARTITION FOR MOLD-FLASKS.

SPECIFICATION forming part of Letters Patent No. 725,481, dated April 14, 1903.

Application filed January 20, 1903. Serial No. 139,797. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVE RADER, a citizen of the United States, residing in Montclair, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Partitions for Mold-Flasks, of which the following is a specification.

This invention relates to a partition or division board for mold-flasks of that class in which a plurality of partition-blocks are made. In making building-blocks in mold-flasks in which removable partition plates or boards are employed it has been found difficult to remove the molded blocks from the partition-plates after the flask has been opened, for the reason that the composition forming the blocks causes an adhesion of the blocks to the partition-plates, so that it required some mechanical means for removing the molded blocks. This requires considerable time, as care must be exercised in the operation, so as not to break or otherwise mar the molded blocks. Various means have been devised for facilitating the peeling of the molded blocks from the partition-plates which operate with varying degrees of success.

The object of my invention is to provide a sort of self-peeling partition for mold-flasks that is simple and perfectly reliable in operation; and to this end the invention consists of a partition for mold-flasks comprising two elastic or resilient metal sheets secured to each other at their upper and lower edges and two longitudinal reinforcing edge strips, said sheets being adapted to be compressed inwardly toward each other when inserting the partitions in the guideways on the sides of the molds, and means on the inner surfaces of said sheets for limiting the inward compression thereof, as will be more fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of my improved partition with a portion of the same broken away to show the interior. Figs. 2 and 3 are vertical transverse sections through the partition, showing the same, respectively, with the resilient side portions in normal and compressed positions; and Fig. 4 is a similar section to

Fig. 2, showing the adjacent molded blocks, shown partly peeled from the partition.

Similar letters of reference indicate corresponding parts.

My improved partition is designed to be used in connection with the usual mold-flasks that employ a number of vertical partitions which are removable therefrom. The partition A consists of two outwardly-bent or convex metal sheets or resilient members *a*, that are arranged substantially parallel. The sheets are separated from each other at their top edges by strips *b*, to which they are securely attached, said strips being recessed at their ends at both sides for receiving interior longitudinal metallic edge strips *c*. On the inner surfaces of the sheets *b* are arranged parallel wooden strips *b'*, the strips of one sheet being arranged alternately with the strips of the other sheet, so that when the sheets are in compressed position, as shown in Fig. 3, the strips of one sheet will lie in the spaces between the strips of the other sheet. The bent shape of the sheets *a* permit a certain degree of compression, while the transverse strips limit the degree of compression or inward movement of the sheets. The ends of the transverse strips *b'* are recessed for receiving the metallic reinforcing edge strips *c*.

In operation the partitions are placed with their expanded reinforced ends in the vertical grooves or guideways of the mold-flask and the transverse core-pieces for the blocks inserted intermediately between the partitions, as customary in molds of this class. The plastic material for the blocks is then filled into the flask and rammed or suitably tamped around the core-pieces with enough force to fill the space between the partitions, which are held in position by the grooves or guideways in the side walls of the mold-flasks. In this position (shown in Fig. 3) the sheets are disposed parallel, so that the molded blocks *P* will be perfectly rectangular in cross-section, as shown by dotted lines. The sheets when thus compressed possess considerable tension. When the mold-flask is opened, by removing the side walls the blocks molded therein are separated from the partitions by

the resiliency of the sheets of the partitions, or, in other words, the blocks are peeled off the sheets without the need of mechanical means by reason of the sheets returning to their convex position, the expansive force due to the resiliency of the sheets being sufficient to overcome the adhesion of the molded blocks to the sheets. In this manner the partitions are self-peeling in effect by reason of their elastic and outwardly-bent metal sheets.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A partition for mold-flasks, consisting of two outwardly-bent elastic or resilient sheets secured at their upper and lower edges, reinforcing metallic edge strips, and transverse strips between the sheets and attached thereto, substantially as set forth.

2. A partition for mold-flasks, consisting of two outwardly-bent elastic or resilient sheets secured at their upper and lower edges, and transverse strips interposed between the same for limiting the inward compression of said sheets, substantially as set forth.

3. A partition for mold-flasks, consisting of two oppositely-bent or convex resilient members, means for connecting the same at their upper and lower edges, and means between

the sheets for permitting the compression of said sheets toward each other to a limited extent, substantially as set forth.

4. A partition for mold-flasks, consisting of two outwardly-bent or convex elastic sheets of metal, means for connecting the same at their upper and lower edges, and a plurality of transverse strips attached to the inner surface of said sheets, the strips of one sheet being alternately disposed with the strips of the other sheet, and longitudinal metallic reinforcing edge strips for said sheets, substantially as set forth.

5. A partition for mold-flasks, consisting of two symmetrically-bent or convex elastic or resilient metal sheets, means for connecting the same at their upper and lower edges, and transverse strips attached alternately with each other to the inner surfaces of said sheets for limiting the inward movement of the sheets, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

GUSTAVE RADER.

Witnesses:

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