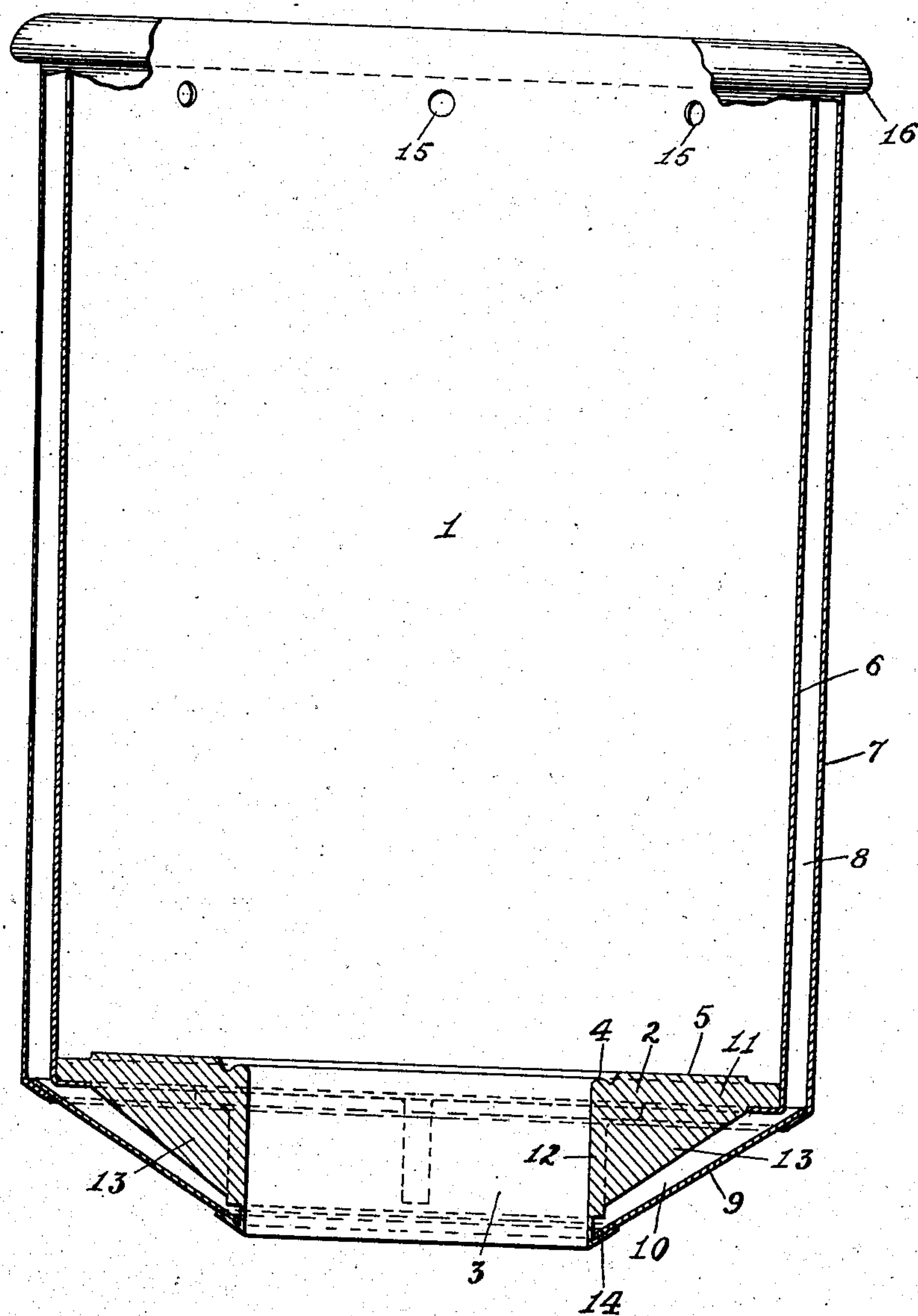


No. 827,295.

PATENTED JULY 31, 1906.

D. A. DODD.
MOLD SUPPORT.

APPLICATION FILED SEPT. 14, 1905.



Attest:
Edgeworth Brown
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UNITED STATES PATENT OFFICE.

DAVID A. DODD, OF EAST ORANGE, NEW JERSEY, ASSIGNOR TO NEW JERSEY PATENT COMPANY, OF WEST ORANGE, NEW JERSEY, A CORPORATION OF NEW JERSEY.

MOLD-SUPPORT.

No. 827,295.

Specification of Letters Patent.

Patented July 31, 1906.

Application filed September 14, 1905. Serial No. 278,394.

To all whom it may concern:

Be it known that I, DAVID A. DODD, a citizen of the United States, and a resident of East Orange, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Mold-Supports, of which the following is a description.

My invention relates to apparatus for use in the molding of phonographic sound-records, and more particularly in a molding process wherein a tubular mold is caused to descend into a bath of molten material which fills the mold and a coating of which congeals on the interior surface thereof and adheres to the same when the mold is removed from the bath.

In the use of the apparatus contemplated by me the support itself enters the bath with the mold, and obviously upon the removal thereof its exterior will be coated with congealed material. If this material is allowed to set or harden thereon, it will be difficult to remove the same. It is, however, necessary that this material be removed after each immersion, because otherwise it would increase in thickness with successive immersions and interfere with the molding operation.

My invention has for its object the provision of an improved support from which the congealed material may be easily detached or removed; and it consists in the features hereinafter set forth and claimed.

Reference is hereby made to the accompanying drawing, which shows in sectional elevation one form of device in which my invention may be embodied.

The mold-support is preferably in the form of a hollow body 1, decreasing slightly in diameter from top to bottom and comprising a base 2, formed with a circular opening 3, surrounded by a seat 4, upon which the mold is adapted to rest, and having a flat portion 5, upon which a removable water-jacket may rest, surrounding the mold. The wall of the support is composed of two cylinders 6 and 7, separated by an air-space 8. The base 2 may be a brass casting comprising a horizontal web 11, a vertical web 12, and stiffening-ribs 13. The member 6 is secured to the

web 11, and the member 7 is secured to a conical member 9, the lower portion of which is secured to the web 12, whereby a continuation of the air-space 8 is formed between the base 2 and member 9. The lower part of the web 12 is made thin and may be spun over the member 9, as shown at 14. The member 6 is provided with apertures 15. The upper portion of the support is provided with a flange 16 to engage a supporting-ring, (not shown,) by which the mold-support may be raised and lowered the desired distance at proper times. During the time the mold and mold-support are in the bath of molten material the air contained in the chambers 8 and 10 will become heated. When the support is raised out of the bath, the heated air will prevent the hardening of the layer of material which has congealed upon the exterior of the mold-support 1 by reason of its high temperature and also because it is a poor conductor of heat, and therefore prevents the transference of heat from the outer wall of the support to the inner wall, the temperature of which is comparatively low on account of the proximity thereto of the water-jacketed mold, so that the congealed material will either drop from the support by its own weight or can be very readily detached therefrom by the operator.

Having now described my invention, what I claim as new therein, and desire to secure by Letters Patent, is as follows:

1. In an apparatus of the character described, a mold-support comprising a base having an opening, a mold-seat surrounding said opening and a wall rising from said base, said wall being provided with an air-chamber, substantially as set forth.

2. In an apparatus of the character described, a mold-support comprising a base having an opening, a mold-seat surrounding said opening and a wall rising from said base, said base and wall being provided with air-chambers, substantially as set forth.

3. In an apparatus of the character described, a mold-support comprising a base having an opening, a mold-seat surrounding said opening and a wall rising from said base

and comprising inner and outer members separated by an air-space, substantially as set forth.

4. In an apparatus of the character described, a mold-support comprising a base
5 having an opening, a mold-seat surrounding said opening and a wall rising from said base and comprising inner and outer members

separated by material which is a poor conductor of heat, substantially as set forth. 10

This specification signed and witnessed this 12th day of September, 1905.

DAVID A. DODD.

Witnesses:

DELOS HOLDEN,
FRANK L. DYER.