

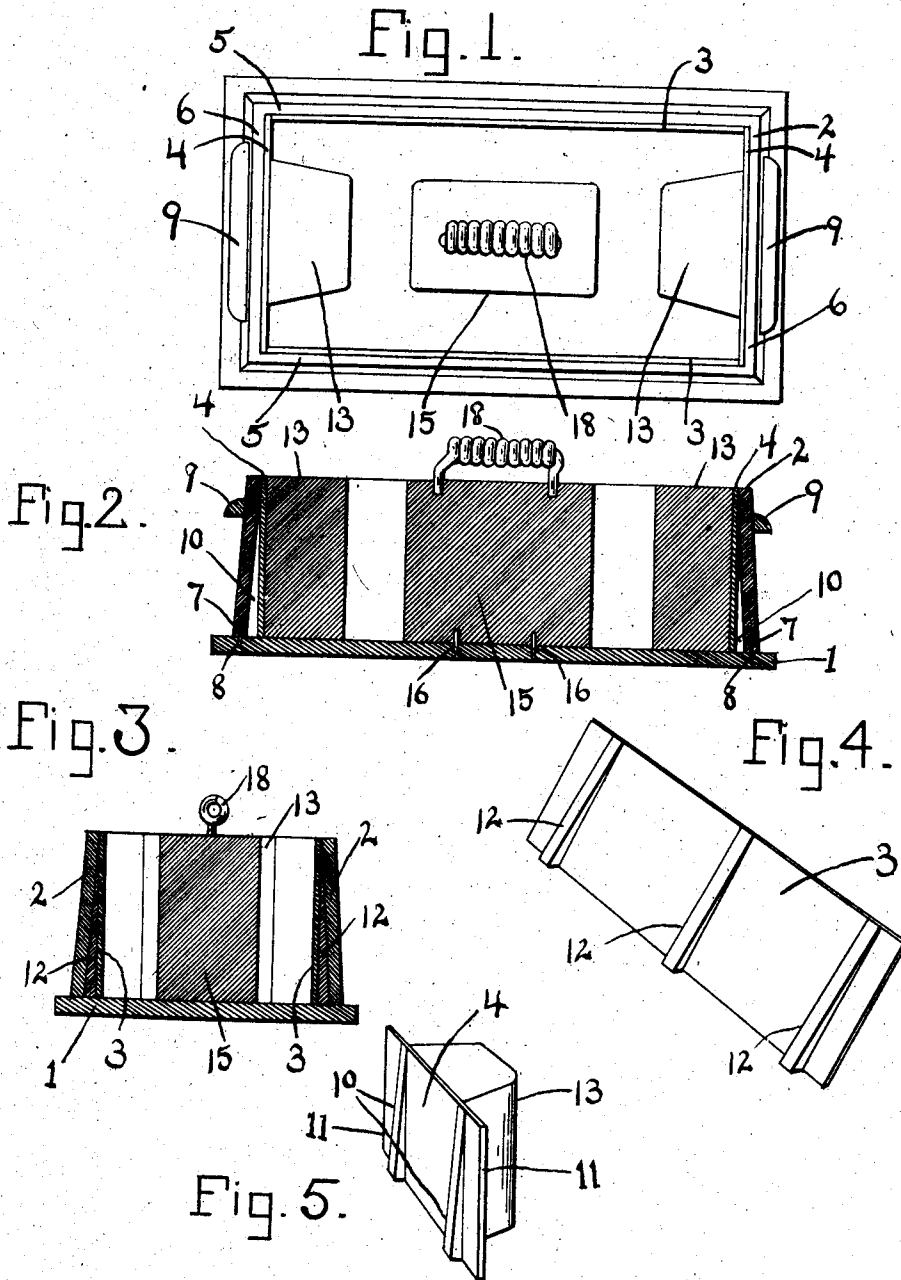
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J. JULIAN & G. BROOKS.

BLOCK MOLD.

APPLICATION FILED MAR. 19, 1906.



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UNITED STATES PATENT OFFICE.

JOSEPH JULIAN AND GEORGE BROOKS, OF OGLESBY, ILLINOIS.

BLOCK-MOLD.

No. 833,836.

Specification of Letters Patent.

Patented Oct. 23, 1906.

Application filed March 19, 1906. Serial No. 306,896.

To all whom it may concern:

Be it known that we, JOSEPH JULIAN and GEORGE BROOKS, citizens of the United States, residing at Oglesby, in the county of Lasalle and State of Illinois, have invented certain new and useful Improvements in Block-Molds; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in molds and linings therefor, and more particularly to one for use in making building-blocks of concrete and other plastic material.

The object of the invention is to provide a mold of this character which may be readily removed from the molded block or article without injury to the same.

A further object of the invention is to improve and simplify the construction of devices of this character, and thereby render the same more convenient and efficient and less expensive.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a top plan view of my improved block-mold. Fig. 2 is a vertical longitudinal sectional view through the same. Fig. 3 is a vertical transverse sectional view. Fig. 4 is a perspective view of one of the removable sides or lining-sections of the mold, and Fig. 5 is a similar view of one of the removable ends or lining-sections of the same.

The embodiment of the invention shown in the accompanying drawings is in the form of a mold adapted for making building-blocks of concrete or the like, and comprises a base or bottom 1, an outer substantially rectangular body or casing 2, and a plurality of lining-sections 3 4, which form the two sides and two ends of the molded block or article. The body or casing is represented as a whole at 2 and is composed of side walls 5 and end walls 6 of uniform thickness throughout and inclined inwardly and upwardly, as shown in Figs. 2 and 3, the object to be hereinafter explained. A detachable connection between the body or casing 2 and the base 1 is preferably effected by providing upon the centers of the bottom edges of the end walls 6 depending studs 7, which enter re-

cesses or openings 8 in the top of the base or bottom 1. Suitable handles 9 may also be provided upon the end walls 6 to permit the body or casing to be readily operated. Casing 2 is provided with lining members 3 for the side walls 5 and lining members 4 for the end walls 6, the lining members being of uniform thickness throughout, disposed upon the base 1 in vertical position with the outer faces at the top bearing against the inner faces of the walls 5 and 6 of the casing at the upper edges of the latter, as shown in Figs. 2 and 3, and with the ends 11 of the end members 4 overlapping and bearing against the adjacent ends of the side members 3.

Attached to the outer vertical faces of the end members 4 are cleats 10, spaced apart and increasing in thickness toward their lower ends, so that their outer faces are inclined to correspond to the inclined inner faces of the end members 6 of the casing 2, and likewise attached to the outer vertical faces of the side members 3 are similar cleats 12, spaced apart and increasing in thickness toward their lower ends, so that their outer faces correspond to the inclined inner faces of the side members 5 of the casing. The casing 2 being formed with walls 5 and 6 of uniform thickness and the lining members 3 and 4 being also formed of uniform thickness can be inexpensively manufactured and without useless or surplus material to increase the weight without corresponding increase in efficiency or utility. The casing and its lining when of wood can thus be constructed from ordinary lumber and without requiring special machinery. The lining members 3 and 4 are protected and supported by the casing 2 and cleats 10 11; hence can be constructed of relatively thin material, as shown.

Upon the inner faces of the lining-sections 3 4 may be formed or secured projections 13 of any shape or form to provide cavities or recesses or grooves in the blocks or molded articles for the purpose of lightening the same or for other purposes. If desired, a center core 15 of any shape may also be provided. As shown, this core is removably mounted upon the base 1 by the engagement of studs 16 in its bottom with recesses or openings in said base, and a suitable handle 18 is provided upon its top, as clearly shown in the drawings.

The operation of the invention is as follows: The ends 4 and the sides 3 of the mold

are first placed in the body or casing 2, and the latter is then mounted upon the base 1. The core 15 is then placed in position and concrete, cement, or other plastic material is 5 packed in the space surrounding said core and between the inner faces of the mold or lining-sections 3 4. After this material has set the handles 9 are grasped and the body or casing 2 is lifted vertically from the sections 10 3 4, the inclination of the outer faces of the cleats and the inclination of the side and end walls 5 6 of the body 2 permitting the casing to be readily removed. After the body or casing 2 is removed the side and end sections 3 4 15 and the core 15 may then be readily removed from the molded block without danger of injury to the sides, corners, or other parts of the green block.

Various changes in the form, proportion, 20 and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined by the appended claim.

25 Having thus described our invention, what

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

A device of the class described comprising a base, a casing bearing upon said base with its side walls of uniform thickness and inclined inwardly toward the upper free edges, 30 lining members of uniform thickness and disposed within said casing at right angles to said base and bearing upon the same with their outer upper faces engaging the inner 35 upper faces of the casing, and cleats spaced apart and disposed between said casing and lining members and increasing in thickness toward their lower ends, whereby the outer faces of the cleats are inclined to correspond 40 to the inclined walls of the casing.

In testimony whereof we have hereunto set our hands in presence of two subscribing witnesses.

JOSEPH JULIAN.
GEORGE BROOKS.

Witnesses:

ANTON ZIAVKO,
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