

July 3, 1923.

1,460,403

J. BONDI

MOLD FOR CEMENT BLOCKS

Filed Feb. 26, 1921

Fig 1

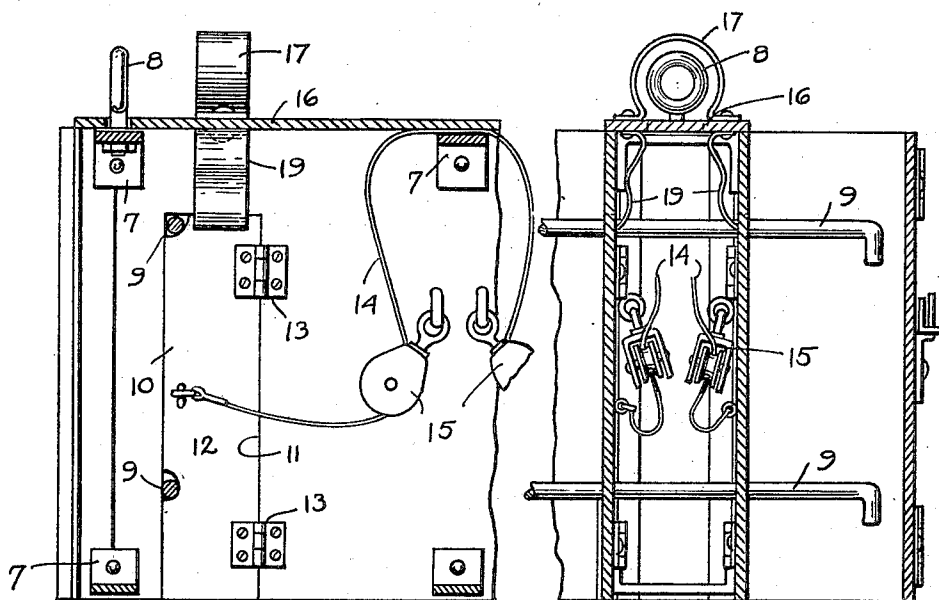
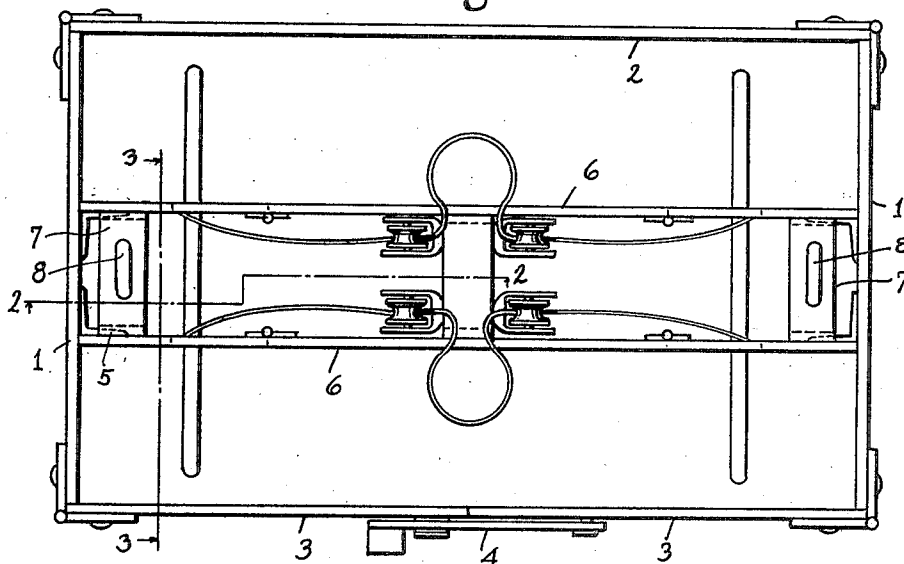
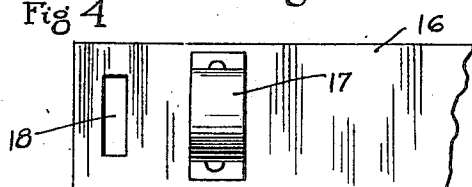


Fig 2

Fig 3.

Fig 4



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MOLD FOR CEMENT BLOCKS.

Application filed February 26, 1921. Serial No. 448,200.

To all whom it may concern:

Be it known that I, JAMES BONDI, a subject of the King of Italy, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Molds for Cement Blocks, of which the following is a specification.

This invention relates to improvements in molds for cement blocks and more particularly to molds which include cores and are adapted to produce blocks of the type characterized by two elements connected in determinately spaced relation by tie-rods, thereby in the completed wall to provide an intermediate dead air chamber.

The invention is directed to the core of a mold of the type identified and consists in certain novel details of structure and arrangement which have in view cheapness and simplicity of construction and facility of operation.

In the accompanying drawing:

Figure 1 is a plan view showing the improved core in relation to a mold casing; in this figure the cover plate of the core is omitted in order to disclose internally arranged parts.

Figure 2 is a longitudinal section on the line 2—2 of Figure 1.

Figure 3 is a cross section on the line 3—3 of Fig. 1.

Figure 4 is a fragmentary plan view of the cover plate of the core.

The improved core may be used in connection with any suitable construction of mold casing. As shown the four walls of such casing are connected together by hinges, that is to say the end walls 1 are hinged to the rear wall 2 and the front wall 3 is made in sections 3 which are respectively hinged to the adjacent end walls 1 and, in use, are held in co-planar relation by a suitable latch 4. The opposite walls of the casing between which the core extends are provided with suitable guide lugs 5 by means of which the core may be fitted and retained in its proper operative position. As shown the core extends between the end walls 1.

The core comprises parallel plates 6 which are connected and braced together and also are determinately spaced by upper and lower cross bars 7. Two of the upper bars 7 near the ends of the core may be utilized in lifting the core from the mold casing and for this purpose may be provided

with upwardly projecting swiveled lifting eyes 8.

The core is constructed to furnish support, during molding, for the tie-rods 9 which permanently connect the block elements cast between the sides of the core and the respective adjacent front and rear walls of the casing; and in contemplation of the lifting of the core, upon the completion of the molding operation, from the mold casing, provision must be made for withdrawing from the tie-rods the support therefor furnished by the core. For these purposes the core plates 6 are provided with movable panels 10 which normally occupy recesses 11 extending to the lower edges of said plates and are formed with relatively small edge recesses 12 to provide clearances through which the rods 9 project and in which said rods are supported. When the molding operation is completed the panels 10 are moved to disclose the recesses 11 and to withdraw the walls of the recesses 12 from supporting engagement with the rods 9 and thereupon the core may be freely lifted from the casing and from between the cast block elements in which the ends of the rods 9 are embedded.

The panels 10 may be mounted in any suitable manner but they are preferably hinged as at 13 to the plates 6 and, of course, in opening the recesses 11 are swung inward, that is to say toward one another. For convenience in opening the panels 10, operating cords 14, one for the panels of each cord plate 6, may be provided, these cords being trained over suitable guide blocks 15 whereby their middle portions are easily accessible for use as hand grips.

The marginal recesses 12 are so small that the amount of plastic cement which may leak through them into the space between the plates 6 is negligible. In order to prevent leakage of cement into such space from the top of the core, a cover plate 16 may be provided, the same having handles 17 by which it may be removed or put into position, slots 18 to take over the eyes 8 and friction springs 19 for engagement with the plates 6 to hold said plate 16 in position. The springs 19 are preferably so arranged as to serve as means for holding the panels 10 in the recesses 11, that is to say, said springs are arranged whereby their engaging terminals bear against said panels.

On the completion of the molding operation, which is carried out in the usual manner, the cover plate 16 is removed and the panels 10 are manipulated to withdraw their support from the rods 9. The core is thereupon ready for withdrawal and this may be effected by any suitable grappling or lifting mechanism which may be connected to the eyes 8.

Having fully described my invention, I claim:

1. In a cement block mold, a removable core comprising connected parallel plates having recesses extending to their lower edges, movably mounted panels normally closing said recesses and having edge recesses to provide clearances for the connecting rods of the molded block elements and whose walls support said rods during the molding operation, and a cover plate to close the top of the core, said plate being provided with means for engaging said panels and holding them in closed position.

2. In a cement block mold, a removable core comprising connected parallel plates having

recesses extending to their lower edges, panels normally closing said recesses and hinged to swing inward in opening, said panels having edge recesses to provide clearances for the connecting rods of the molded block elements, the walls of said edge recesses supporting said rods during the molding operation and means arranged within said core for opening said panels.

3. In a cement block mold, a removable core comprising connected parallel plates having recesses extending to their lower edges, panels normally closing said recesses and hinged to swing inward in opening, said panels having edge recesses to provide clearances for the connecting rods of the molded block elements, the walls of said edge recesses supporting said rods during the molding operation and a cover plate to close the top of the core, said plate having projections to engage said panels and hold them in closed position.

In testimony whereof I affix my signature.

JAMES BONDI.