No. 878,945. PATENTED FEB. 11, 1908.

R. ENDSLEY.

CEMENT BLOCK MACHINE.

APPLICATION FILED FEB. 9, 1907.

2 SHEETS—SHEET 1.

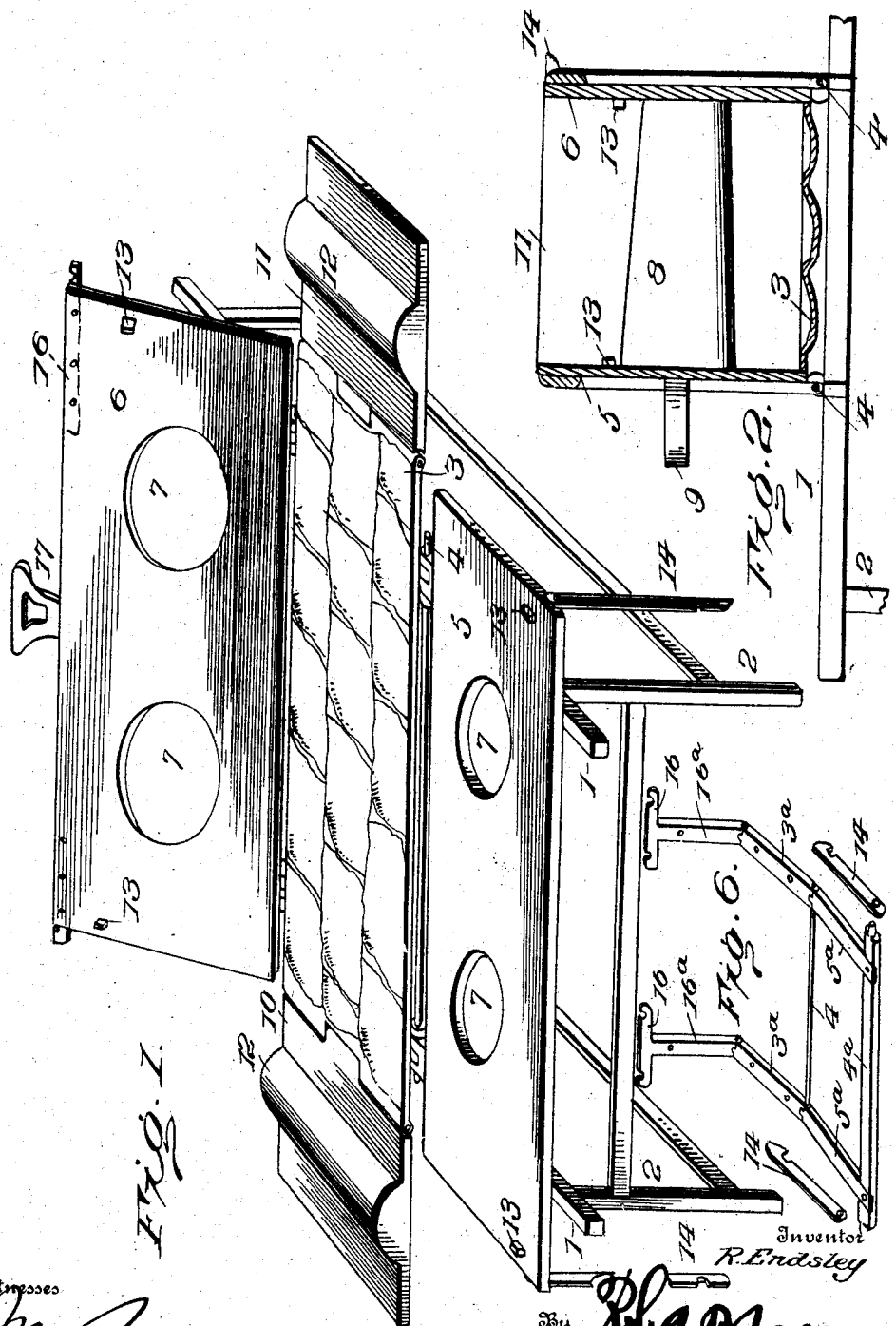


Fig. 1.

Fig. 2.

Fig. 6.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 3.

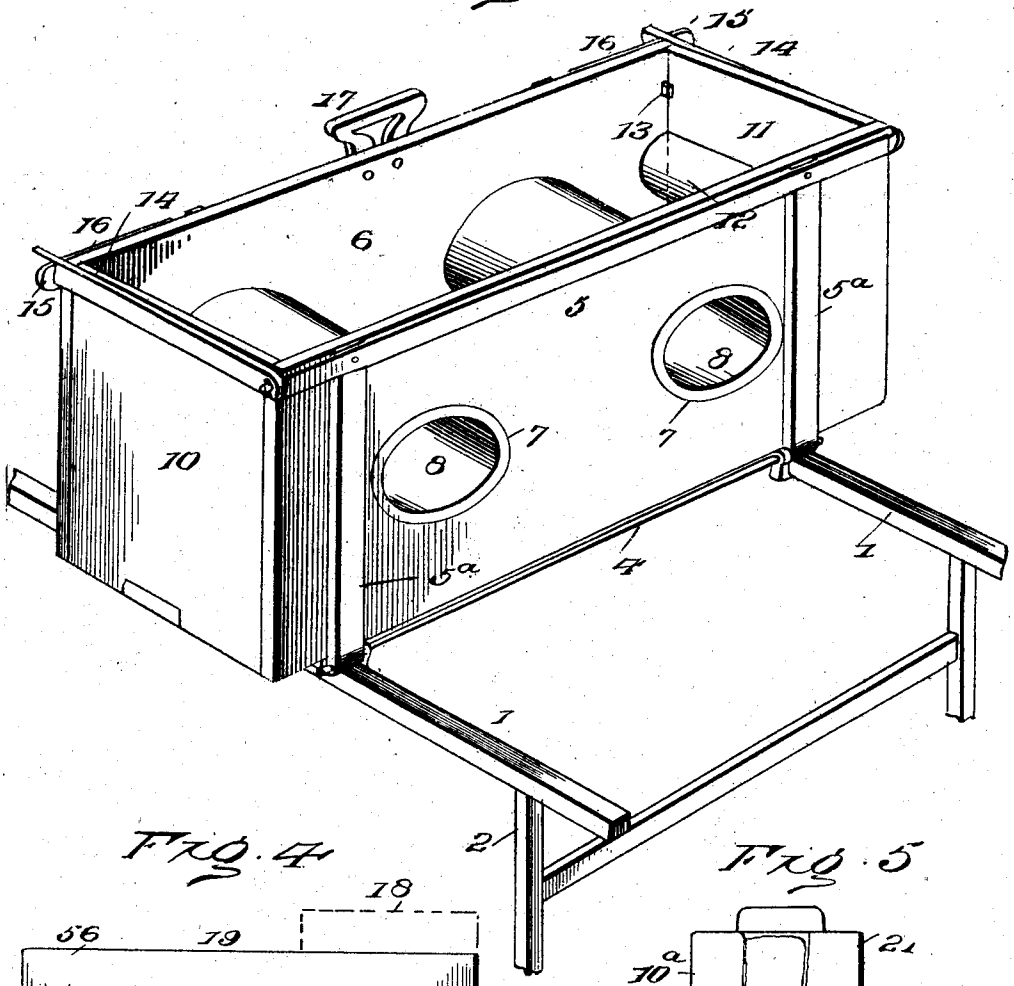


Fig. 4

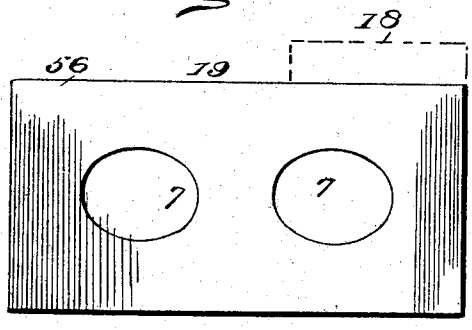
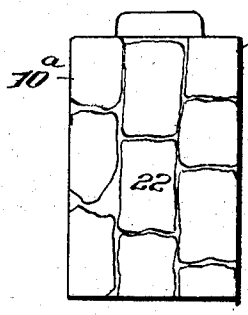


Fig. 5



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UNITED STATES PATENT OFFICE.

ROSS ENDSLEY, OF MARION, INDIANA, ASSIGNOR OF ONE-HALF TO MILTON F. HORST, OF MARION, INDIANA.

CEMENT-BLOCK MACHINE.

No. 878,945. Specification of Letters Patent. Patented Feb. 11, 1908.

Application filed February 9, 1907. Serial No. 356,616.

To all whom it may concern:

Be it known that I, ROSS ENDSLEY, a citizen of the United States, residing at Marion, in the county of Grant and State of Indiana, have invented certain new and useful Improvements in Cement-Block Machines, of which the following is a specification.

This invention contemplates certain new and useful improvements in concrete block machines and particularly in that class of machines designed to form concrete blocks with one or more faces roughened or made knob-like with various designs, so as to simulate rough dressed natural stone.

This invention has for its object a concrete block machine of this character which may be cheaply made and easily operated and which will be durable in construction, and the invention consists in certain constructions, arrangements and combinations of parts hereinafter described and claimed.

For a full understanding of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of my improved mold, the parts being shown open; Fig. 2 is a transverse sectional view with the mold members closed; Fig. 3 is a detail perspective view with the mold members closed in readiness to receive the plastic material; Fig. 4 is a detail face view of a modified form of pallet; Fig. 5 is a similar view of a modified form of end board. Fig. 6 is a detail perspective view on a reduced scale, illustrating the form of hinges used.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

My improved concrete block machine comprises a supporting framework embodying a pair of sills 1 suitably supported on legs 2 that are braced to produce a light and strong structure.

Mounted upon the sills 1 is a face plate 3 formed with depressions of any desired design, so that the face of the completed block may be more or less roughened to simulate the natural stone. To the lower face of the face plate 3 transversely extending straps 3^a are riveted or otherwise secured, the same being best seen in Fig. 6, and a hinge rod 4 is connected to these straps 3^a at one end and is designed to pivotally connect to such straps another pair of straps 5^a. To the outer ends of these last named straps a cross bar 4^a is riveted or otherwise rigidly secured and latches 14 are pivotally connected to the outer ends of the cross bar 4^a.

5 and 6 designate the two side boards of the mold, the said side board 5 being designed to constitute the pallet upon which to carry away the completed block. To the rear face of the side board 6 hinge straps 16^a are secured by rivets or the like, one rivet for each strap being preferably employed so that said hinge straps may be swung sidewise whenever desired to bring the side board to a true position. These straps 16^a are preferably formed integral with horizontally extending bars 16 formed in their oppositely extending ends with hooks 15 arranged for engagement with the latches 14.

From the foregoing, it will be understood that the pallet or front side board 5 rests removably upon the straps 5^a and their cross bar 4^a when the mold is open, and is held rigidly in place when the mold is closed by the cross bar 4^a and the latches 14 that are engaged with the hook 15. The bars 16 are provided at each end with a hook, so that the hooks may be reversed, should one become broken.

The boards 5 and 6 are provided with one or more core openings 7 designed to receive the cores 8 which preferably are hollow, as shown and preferably taper towards one end and are provided at one end with hand holds 9, so that they may be inserted easily and easily retracted in and from the core openings 7. These cores produce one or more air openings or spaces within the completed block.

10 and 11 designate the end boards of the mold, and each of said end boards is preferably provided with a half-round transversely extending rib 12 adapted to form an end air space or recess in the block. The end boards 10 and 11 may be hinged to the ends of the face board 3, and are adapted to be held in vertical position by means of the latches 14, co-acting with the lugs 13 on the inner faces of the side boards 5 and 6.

After the mold has been closed, as before described, and cores inserted in place, the plastic material is poured into the mold and tamped, and as soon as it is set, the machine

is turned one-quarter towards the operator so that the block which has been formed face down, now rests upon the side board 5. The latches 14 are then released and the side board 6 and two end boards 10 and 11 swung outwardly and the completed block is then carried away on the pallet constituted by the board 5, which is manifestly detachably as well as hingedly connected to the framework. Another pallet is then substituted for the one that has been used, and the operation repeated for the next block. It is obvious that my invention is not limited to the exact size or proportion of parts of the machine herein described and illustrated.

Fig. 4 illustrates a form of side board, designated 56 which may be substituted for the boards 5 or 6 and which is made in rights and lefts with the extension 18 at one corner or the other, for the purpose of making corner blocks and in this connection, reference is to be also had to a type of end block illustrated in Fig. 5 and designated 10^a, said end block being provided with depressions so that either or both ends of the completed block may display the roughened surface already described with reference to the face of the block.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided a very simple, cheap and efficient construction of cement block machine which may be easily manipulated by one man to make blocks of artificial stone, and which will be durable in construction as well as efficient for the desired purpose.

Having thus described the invention, what is claimed as new is:

A mold, comprising a face plate, a support upon which said face plate is mounted, said support extending on both sides of the face plate, straps extending across and secured to the lower face of said face plate, side board straps hinged at one end to the first named straps, and provided at their outer ends with laterally extending arms formed with hooks, a side board connected to the last named straps and adapted to be let down outwardly and rest upon the support extension at one side of the base plate, other side board straps hinged to the opposite ends of the first named straps, a cross bar connecting the outer ends of the last named side straps together and projecting outwardly at both ends beyond said last named side board straps, pivoted latches carried by the ends of said cross bar, and designed for engagement with the hooks, end boards hinged to the ends of the face plate and adapted to be swung upwardly to a vertical position and prevented from swinging outwardly by said hooks, and another side board interposed between said last named side board straps and the adjacent edges of the side boards in vertical position, said last named side board being devoid of permanent connection to its straps.

In testimony whereof I affix my signature in presence of two witnesses.

ROSS ENDSLEY. [L. S.]

Witnesses:
B. F. LIVENGOOD,
STETSEN GOTSCHALL.