

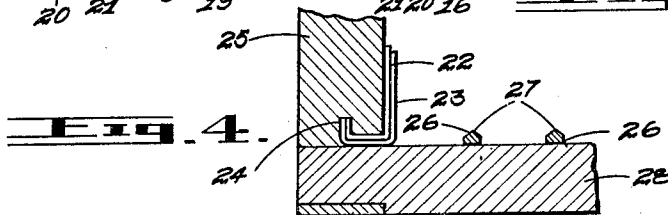
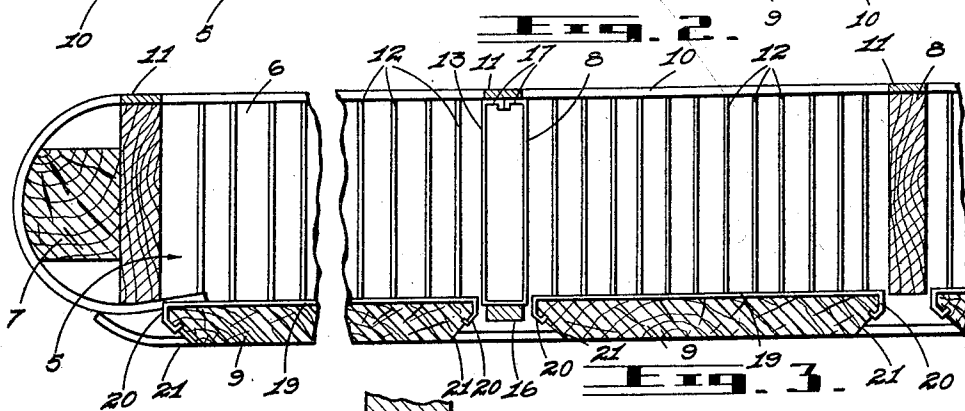
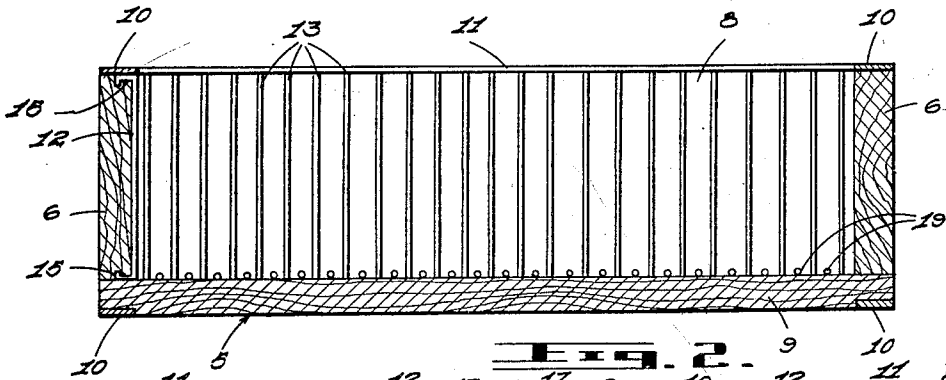
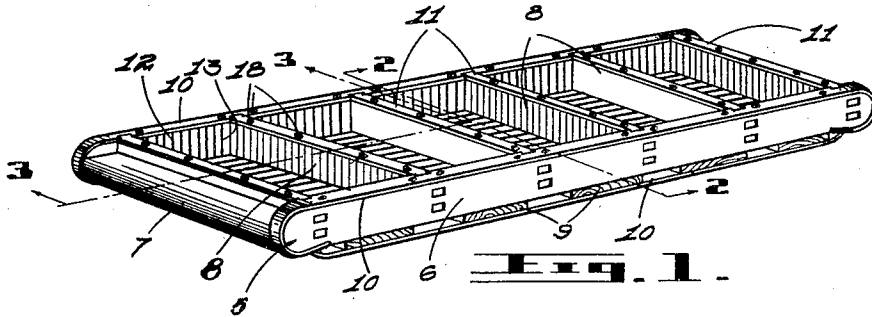
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A. W. E. HELLYER

MOLD

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MOLD.

Application filed October 18, 1922. Serial No. 595,371.

To all whom it may concern:

Be it known that I, ALFRED W. E. HELLYER, a citizen of the Dominion of Canada, and resident of Ottawa, in the
 5 county of Carleton and Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Molds, of which the following is a specification.

This invention has relation to certain new
 10 and useful improvements in molds.

An object of the invention resides in the provision of a brick mold which will be constructed in such a manner as to form channels or grooves in one or more places as the
 15 bricks are molded so as to present ornamental faces or surfaces which may be turned out to form one side of the wall constructed from the bricks.

Another object of the invention resides in the provision of a brick mold of the character stated which will include channel or groove forming wires carried on certain
 20 walls of the mold compartments and securely held in position during use of the mold.

A further object of the invention resides in the provision of a mold of the character stated which will be of simple and inexpensive construction as well as highly efficient
 25 in use, strong and durable.

The invention has for a still further object the provision of a mold of the character stated in which the channel or groove forming members will have their ends fastened
 30 in such a manner to the walls of the mold compartment as to securely retain the channel or groove forming members in proper position.

With the foregoing and other objects in view as will appear as the description proceeds the invention consists in the novel construction, combination and arrangement of cooperating elements as hereinafter more specifically set forth, claimed and shown in the accompanying drawings forming a part
 35 of the present application and in which:

Fig. 1 is a perspective view of the brick forming mold.

Fig. 2 is an enlarged transverse vertical section, substantially on the plane of line 2—2 of Fig. 1, looking in the direction indicated by the arrows.

Fig. 3 is an enlarged detail longitudinal vertical section substantially on the plane of line 3—3 of Fig. 1, looking in the direction indicated by the arrows.

Fig. 4 is an enlarged fragmentary detail vertical section, showing a slightly modified form of the invention.

Referring more in detail to the drawings in which similar reference characters designate corresponding parts throughout the
 60 several views, 5 designates in general the mold which includes longitudinal side members 6 and transverse end handles 7 secured between the opposite ends of the longitudinal side members 6, as shown clearly in Fig. 1. The mold 5 is divided into several compartments or sections, by the transverse partition members 8 and separate bottom members 9 are provided for the various compartments or sections. The longitudinal edges of the mold structure are braced and strengthened by the re-inforcing and strengthening strips 10 secured over the frame and extending around the ends of said longitudinal
 65 members while similar members 10' extend across the ends of the bottom members 9. The transverse partitions 8 are also re-inforced by the re-inforcing and strengthening strips 11 secured on the upper edges thereof and interlocking at their ends with the longitudinal re-inforcing and strengthening strips 10. This is the usual construction of this form of mold, and the connection of the various parts will need no further detailed description.

In order to adapt this type of mold to the formation of ornamental or grooved bricks, the groove or channel forming wires 12, 13 and 19 are employed. The wires 12 are extended in spaced relation transversely or vertically of the inner face of one longitudinal side member 6 of the structure, with the upper and lower ends 15 of the wires 12 bent over and secured in the upper and lower edges of the side frame member 6. An appropriate number of wires 12 are employed at one end of each compartment or section of the mold. The wires 13 are provided on every second transverse partition member 8 and are composed of substantially U-shaped wire members 16 having their central or bight portions extended transversely beneath the transverse partition 8 with the main portions of the wires brought
 90 upwardly in spaced relation along the opposite faces of the transverse partition 8 and the ends 17 bent downwardly toward one another over the upper edge of the transverse partition 8 and extended into the same, as
 100 110

shown clearly in Fig. 3. It is evident from Figs. 2 and 3 that the upper ends 15 of the wires 12 are held in proper position by the longitudinal re-inforcing and strengthening strips 10, while the re-inforcing and strengthening strips 11 retain the upper ends 17 of the substantially U-shaped wires 16 in proper position in the upper edges of the transverse partition 8. It is also evident that the re-inforcing and strengthening strips 10 and 11 may be secured in place by screws 18 or other suitable securing members.

In Figs. 1 to 3 I have shown the transverse groove or channel forming wires 19 which extend in spaced relation across the bottom members 9 of the various sections. The ends 20 of the wires 19 are bent downwardly around the longitudinal edges of the bottom members 19 and then driven into the downwardly and inwardly bevelled portions 21 of the longitudinal edges, as shown clearly in Fig. 3.

In Fig. 4, the modified form is disclosed which comprises upstanding channel or groove forming wires 22 having angular faces 23 instead of rounded faces, as shown in the preferred form. The ends 24 of the channel or groove forming wires 22 are bent around and driven into the lower edges of the upstanding frame members 25, on the inner face of which the wires 22 are positioned, thereby securely anchoring the lower ends 24 of the wires 22. It is to be understood that the upper ends of the wires 22 may be similarly anchored so as to securely hold the wires 22 in proper position.

Corresponding bottom wires 26, having angular upper faces 27 are mounted transversely of the bottom frame member 28 of each section of the mold, as shown in Fig. 4. It will be apparent that when employing the wires of the character shown in Fig. 4, a different shaped channel or groove will be formed in the faces of the bricks molded in the compartment or sections of the mold and it is apparent that the form of wires may be varied as desired, according to the result desired to be obtained.

While the mold has been disclosed as having vertical wires on side and end members of the sections and transverse wires on the bottom members of the sections, longitudinally or angularly positioned wires may be employed to produce grooves or channels extending longitudinally or angularly of the faces of the bricks, if preferred. It is also to be understood that the wires may be employed for only one face or for a number of faces of the brick, as desired. Furthermore, other means may be employed for ornamenting or finishing one or more faces of the brick while molding the same. Therefore, I do not wish to limit myself to the structure disclosed.

This principle may be applied to various

forms of molds for the production of brick, building blocks, cement forms and the like.

While the preferred embodiment of the invention has been described it is to be understood that minor changes in the details of construction, combination and arrangement of co-operating elements may be resorted to within the scope of what is claimed without departing from the spirit of the invention.

What I claim as new is:

1. A non-separable brick mold of the character described including a wall having groove forming members mounted thereon.

2. A mold of the character described including a compartment; and groove forming members spaced on the wall of said compartment and secured thereto at the ends of said groove forming members.

3. A mold of the character described including partition walls; and groove forming wires encircling certain of said partition walls in spaced relation and secured by their end portions to said partition walls.

4. A mold of the character described including a compartment having side, end and bottom walls; and groove forming members mounted on certain of said side and end walls and on the bottom wall; said groove forming members having their ends bent over and anchored in edges of said certain side and end walls and said bottom wall.

5. A mold of the character described including a wall carrying groove forming means; said groove forming means being extended vertically of the wall carrying said means.

6. A mold of the character described including a compartment; and groove forming members spaced on the wall of said compartment and secured thereto at the ends of said groove forming members; said groove forming members being extended vertically of the walls carrying said members.

7. A mold of the character described including partition walls; and groove forming wires encircling certain of said partition walls in spaced relation and secured by their end portions to said partition walls; said groove forming wires being extended vertically of the walls carrying said wires.

8. A mold of the character described including a compartment having side, end and bottom walls; and groove forming members mounted on certain of said side and end walls and on the bottom wall; said groove forming members having their ends bent over and anchored in edges of said certain side and end walls and said bottom wall; said groove forming members being extended vertically of said certain side and end walls and transversely of the bottom wall.

9. A mold of the character described in-

cluding a wall carrying groove forming means; said groove forming means having angular working edges.

10. A mold of the character described including a compartment; and groove forming members spaced on the wall of said compartment and secured thereto at the ends of said groove forming members; said groove forming members having angular working edges.

11. A mold of the character described including partition walls; and groove forming wires encircling certain of said partition walls in spaced relation and secured by their end portions to said partition walls; said groove forming wires having angular working edges.

12. A mold of the character described including a compartment having side, end and bottom walls; and groove forming members mounted on certain of said side and end walls and on the bottom wall; said groove forming members having their ends bent over and anchored in edges of said certain side and end walls and said bottom wall; said groove forming members having angular working edges.

13. A mold of the character described including a wall carrying groove forming means; said groove forming means being extended vertically of the walls carrying said means; said groove forming means having angular working edges.

14. A mold of the character described including a compartment; and groove forming members spaced on the wall of said compartment and secured thereto at the ends of said groove forming members; said groove forming members being extended vertically of the wall; said groove forming members having angular working edges.

15. A mold of the character described including partition walls; and groove forming wires encircling certain of said partition walls in spaced relation and secured by their end portions to said partition walls; said groove forming wires being extended vertically of the wall on which they are mounted; said groove forming wires having angular working edges.

16. A mold of the character described including a compartment having side, end and bottom walls; and groove forming members mounted on certain of said side and end walls and on the bottom wall; said groove forming members having their ends bent over and anchored in edges of said certain side and end walls and said bottom wall; said groove forming members being extended vertically of the said certain side and end walls and transversely of the bottom wall on which they are mounted; said groove forming members having angular working edges.

In testimony whereof, I affix my signature.

ALFRED W. E. HELLYER