March 28, 1933. P. TAMAGNO 1,902,977

MOLD FOR CAST STONE AND PROCESS OF USING THE SAME

Filed Feb. 26, 1932 2 Sheets-Sheet 1

Fig. 2.

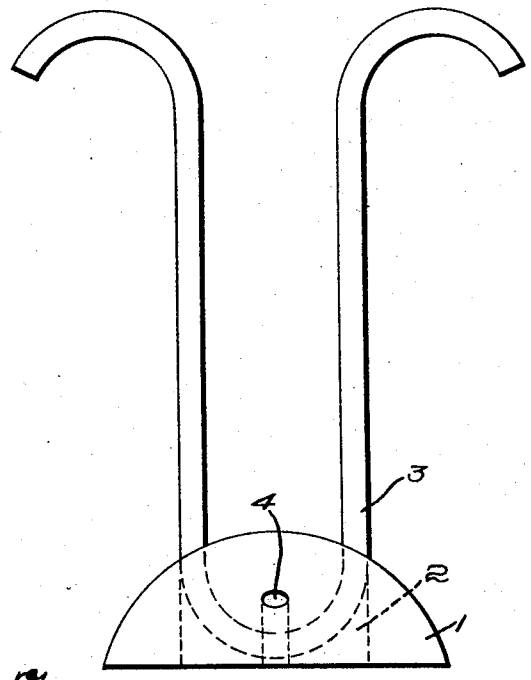


Fig. 8.

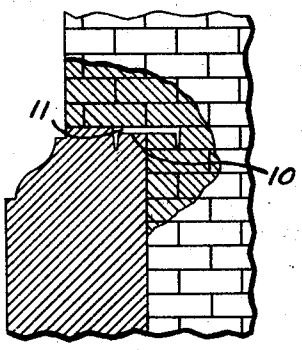


Fig. 7.

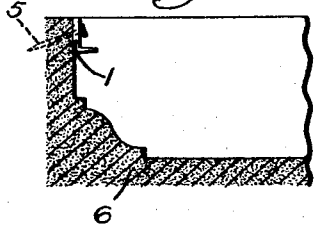


Fig. 1.

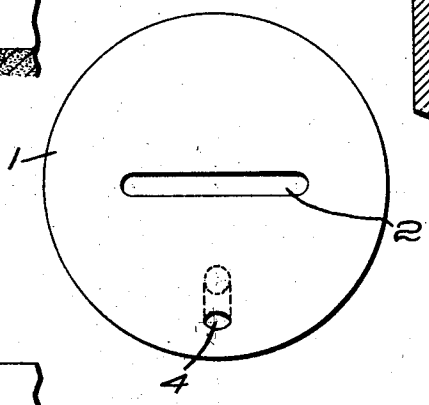
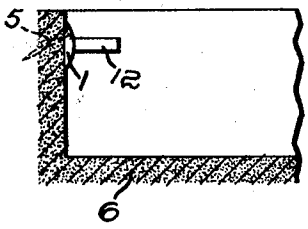


Fig. 9.



Inventor:
Peter Tamagno,
By Emery Booth Varney Townsend
Attys

March 28, 1933. P. TAMAGNO 1,902,977

MOLD FOR CAST STONE AND PROCESS OF USING THE SAME

Filed Feb. 26, 1932 2 Sheets-Sheet 2

Fig. 3.

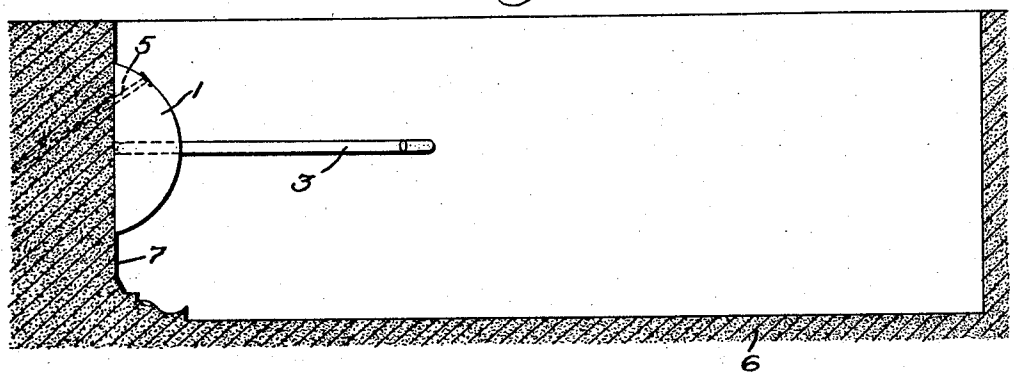


Fig. 4.

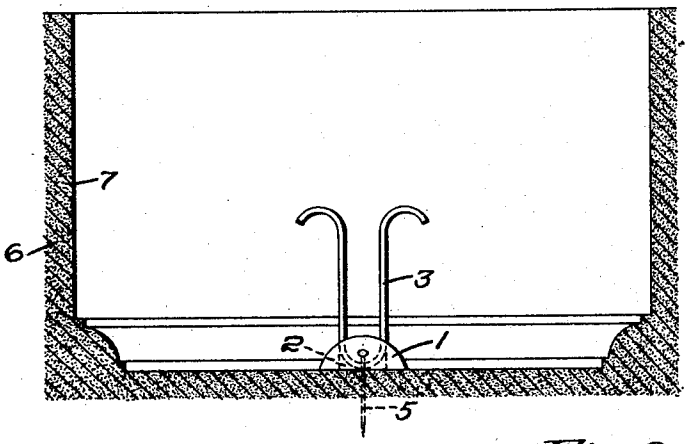


Fig. 5.

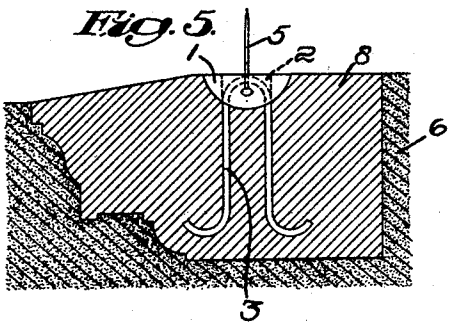
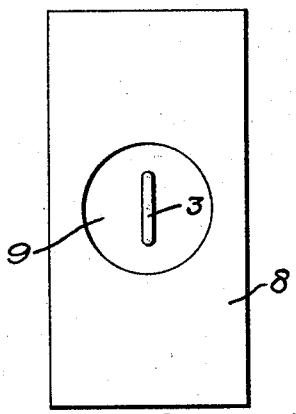


Fig. 6.



Inventor:
Peter Tamagno,
by Emery Booth Varney Townsend
Atty's

Patented Mar. 28, 1933

1,902,977

UNITED STATES PATENT OFFICE

PETER TAMAGNO, OF NATICK, MASSACHUSETTS

MOLD FOR CAST STONE AND PROCESS OF USING THE SAME

Application filed February 26, 1932. Serial No. 595,353.

This invention relates to cast or molded stone or cement blocks, or the like, and aims to provide a novel and improved mold and method of using the same, particularly for casting a hoisting eye or the like in the stone.

In the drawings of one embodiment of my novel mold to be illustrated and described herein:

Fig. 1 is a plan or face view of my novel eye-holding and pocket pattern member;

Fig. 2, a side elevation of the same with an eye therein;

Fig. 3, an edge view of the bottom and ends of a sand mold with the side wall removed with my novel eye-holding and packet pattern member with an eye therein, to be positioned in the top of a facing stone previous to pouring the cement;

Fig. 4, a similar view of a mold with my pocket pattern and eye-holding member with an eye to be cast in the top of a pedestal;

Fig. 5, a similar view showing the holder and eye positioned for casting in the top of a cornice block;

Fig. 6, a plan of a conventional block casting with the eye therein, and showing the pocket in which the hook is positioned;

Fig. 7, a partial end and bottom view of a mold with the side wall removed provided with a locking-strap-seat pattern member;

Fig. 8 illustrates how such a strap would be used therein; and

Fig. 9, a view similar to that of Fig. 7 of a mold for casting a stone, with a dowel hole, or hole for a bar therein;

Referring to the drawings, and Figs. 1 and 2 in particular, my novel eye holder and pocket pattern member is shown as comprising a segment 1 of a curvilinear body of suitable material, as metal, wood, plaster of Paris, rubber or other compressible or yielding material such as art gum, wax and the like, with an elongated aperture 2 extended into or through the same from front to back. This aperture is made approximately of a size to receive and hold the outer end of a hoisting eye 3, Fig. 2, or other member which it is desired to cast in the block. While the pocket pattern member and eye holder may, as stated, be made of any material that is strong enough to support the hook, nevertheless it is inconvenient to use iron, wood and the like, because such material sticks very closely to the cementitious material to be cast, and much trouble and some danger to the casting is experienced in such use. On the other hand, if rubber, art gum, wax or other compressible material having an elasticity or resiliency is used, it does not stick usually to the casting, and may be readily removed.

The holder and pocket pattern member also is provided, Figs. 1 to 5, with pattern securing means, as a passage 4 therethrough, angularly from front to back, to receive a nail or small rod 5, by means of which the holder 1 is held temporarily in proper position in the mold.

When it is desired to cast a block with the eye 3 or other similar member in one end, Fig. 3, the mold 6 is made in the usual manner of granular or other suitable material, and the holder 1 is secured upon the end 7 of the mold, where it is desired to locate the eye, by pushing the nail 5 into the end of the mold.

The stone forming mixture is then poured into the mold, and the holder 1 and the eye 3 become embedded therein, with the eye in desired position. When the mixture is sufficiently hard, the mold of sand or other material is broken down, leaving the pattern member and eye holder 1 in the casting, from which it may then readily be removed by the nail or rod 5. If the mold is formed of boards or the like, the holder securing member 5 will be driven lightly into the same, and when the mold board is removed, the holder will be drawn from the casting by the board, or it may be removed separately.

The mixture will not adhere to the face of the holder made of rubber or similar substance, and it is separated readily therefrom without defacing the casting or the use of any instrument for cutting the casting, thus saving much time, labor and the necessity for providing tools, and the danger of chips from the casting entering the mold sand. If for any unusual reason the rubber member 1 should not free itself from the casting read-

ily, a knife blade inserted beneath the edge of the holder will readily free it.

If the hoisting eye is to be located in the bottom of the casting, Fig. 4, then the holder and pocket pattern 1 is placed face down in the bottom of the mold, the securing member 5 pushed or driven into the sand or mold bottom to position the pattern member, and the eye inserted loop end first into the holder.

In case the eye is to be cast in the top of the casting, then, Fig. 5, the mixture 8 is poured into the mold and the holder 1 and the hook are thrust down into it, the grip of the pattern, if it be rubber or other yielding material, gripping the eye to guard against its dropping into the mixture. The holder is removed as before described, leaving the hook in the casting.

In eye holders 1 made of iron, wood, plaster of Paris or other similar materials, the aperture 2 must be made to fit the eye closely as the material will not yield, and are not so desirable, because, as stated, the mixture adheres to the holder and the latter can be freed from the mixture only with difficulty, and any mixture that adheres to the holder when the latter is removed from the former must be removed from the holder by the use of tools involving time and labor.

These difficulties are all avoided by the use of a rubber holder and pattern member, which readily receives, yieldingly grips and positions eyes or other similar members of different sizes within certain minimum and maximum dimensions.

Should there be any tendency at any time, owing to the use of any particular water or casting mixture, for my novel holder to become slightly coated with the mixture or ordinary dust in which it is used, the holder may be thrown into a bath of oil, which will effectually prevent the existence of such a condition.

In Fig. 6 is shown a casting 8, out of its mold *a*, with the depressed pocket 9 about the eye end, so that the end or nose of the hoisting hook may easily enter the eye.

Obviously, the pattern or forming member may be of any other shape if desired, and, Fig. 7, it may be used of a shape for forming channels 10, Fig. 8, in the casting to receive the tie straps 11 frequently used to tie one stone to another or to bricks in a wall, as shown. If of rubber, the pattern member would, so used, possess the advantages above pointed out.

It should be understood that any reference in this specification to "sand mold" is used in its generic sense and includes any material of a granular nature usable for a mold.

In Fig. 9 is illustrated a modified form of pocket pattern member, in which the member 1 is somewhat less rounded on its inner face, and is provided with an inwardly-directed cylindrical portion 12, designed to form in the casting a dowel hole to receive a dowel locking pin to secure a stone, such as a parapet stone, to an adjoining stone for security of both.

The hole can also be used to receive a bar in the stone, as for security of a window, or the like. The member 1 is secured to the mold end by a securing pin 5, as in the other instance, and by it, the member 1 may be readily removed from the casting.

My invention is not restricted to the present form illustrated herein.

I claim:

1. A pocket pattern and eye holding member for use with a mold for casting semi-fluid material, said member of yielding and elastic material with an eye holding aperture therein.

2. A pocket pattern and eye holding member for use with a mold for semi-fluid material, comprising a segmental member of yielding and elastic material with an eye holding aperture therein, and a pattern securing means thereon.

3. A pocket pattern and eye holding member for use with a mold for semi-fluid material comprising a member of yielding and elastic material with an eye holding aperture and an aperture for a pattern securing means therein.

4. The process of casting stone with a hoisting member therein comprising forming a mold, securing to one face thereof a yielding and elastic pocket pattern and hoisting member holder with the hoisting member gripped thereby, pouring the stone forming mixture in the mold about the pattern member and removing the latter from the hoisting member and casting while the pattern member is partly under compression.

5. A mold for casting semi-fluid material comprising in combination therewith, a resilient pocket pattern member carrying with a yielding grip a casting manipulating member.

In testimony whereof, I have signed my name to this specification.

PETER TAMAGNO.