W. M. VENABLE.

COLUMN TOP MOLD.

APPLICATION FILED NOV. 1, 1912.

1,122,822.

Patented Dec. 29, 1914.

Fig. 1

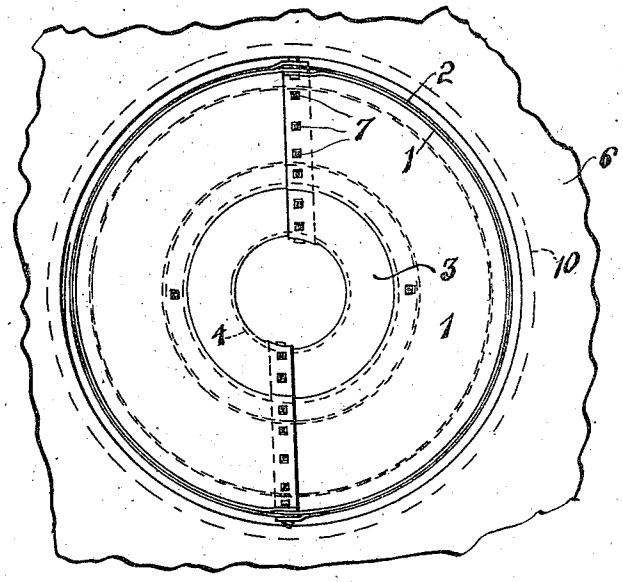


Fig. 2

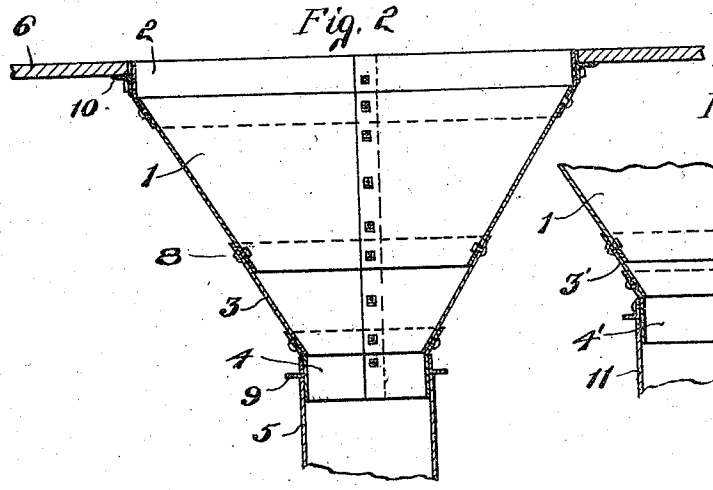
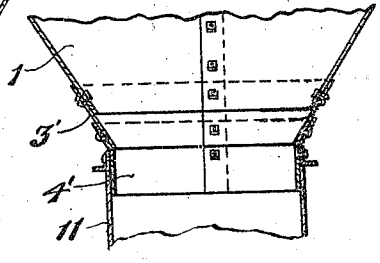


Fig. 3



WITNESSES:

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WILLIAM MAYO VENABLE, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR TO BLAW STEEL CONSTRUCTION COMPANY, OF PITTSBURGH, PENNSYLVANIA, A CORPORATION OF NEW JERSEY.

COLUMN-TOP MOLD.

1,122,822. Specification of Letters Patent. Patented Dec. 29, 1914.

Application filed November 1, 1912. Serial No. 729,078.

To all whom it may concern:

Be it known that I, WILLIAM MAYO VENABLE, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Column-Top Molds, of which the following is a specification.

The invention relates to column top molds or forms for use in the formation of concrete columns. The invention has for its primary objects; the provision of a column top mold or form in which the major portion of the mold can be used with columns of different diameters, thus reducing the number of different pieces of apparatus where a piece of construction work calls for columns of different diameters; and the provision of a form of simple construction readily assembled and disassembled. One embodiment of the invention is illustrated in the accompanying drawing, wherein—

Fig. 1 is a plan view of the mold, Fig. 2 is a vertical section through the mold, and Fig. 3 is a vertical section showing the application of the form to a column of a different diameter than that shown in Fig. 2.

Referring to Figs. 1 and 2, 1 is an upper conical section provided at its upper end with a cylindrical collar 2 riveted or otherwise secured to the member 1; 3 is the lower conical member to the lower edge of which is riveted the cylindrical collar 4; 5 is the upper end of a column mold with which the column top mold consisting of the parts 1, 2, 3, and 4 is to be used; and 6 is the flooring through which the collar 2 extends. In order to remove the form after the concrete has set therein, the parts 1, 2, 3, and 4 are made in two sections, the parts of which overlap as indicated in the drawings, and are secured detachably together by means of the stove bolts 7.

The walls of the sections 1 and 3 are inclined at the same angle, and their overlapping ends are secured detachably together, preferably by means of the stove bolts 8. The cylindrical collar 4 is provided with an angle iron 9 for engaging the end of the mold 5, and the cylindrical collar 2 is provided with an angle iron 10 for engaging the under surface of the floor 6.

The manner in which the upper conical section 1 may be utilized in connection with a column form of a larger diameter is illustrated in Fig. 3, wherein the column form 11 is of a larger diameter than the column form 5 of Fig. 2. It will be seen that in order to use the conical member 1 with the column form 11 a lower conical member 3′ having its lower end of greater diameter that the section 3 must be employed. The upper diameter of the section 3′ is the same as that of the section 3, and the amount of overlapping between the sections 3′ and 1 is preferably the same as in Fig. 2, the section 3′ being substantially the section 3 with its lower end cut off and with a collar 4′ of larger diameter substituted for the collar 4 of Fig. 2. It will be seen that by using a plurality of lower sections having the same diameter at their upper ends, but varying diameters at their bottom ends, the upper conical section 1 may be used with column forms of widely varying diameter. The term conical is used in its broad or loose sense, and it will be understood that the invention is not limited to the use of sections in which the parts are geometrically or exactly conical, the principle involved being applicable in any case where the wall of the sections converge from the upper to the lower ends.

Having thus described my invention and illustrated its use, what I claim as new and desire to secure by Letters Patent, is the following.

In combination, a column top molding apparatus for use with circular column molds of different diameters, comprising an upper conical section and a plurality of lower conical sections each with its walls converging at substantially the same angle as the walls of the upper section, but having different bottom diameters to fit the upper ends of circular column molds of

different diameters, and all having a diameter at their upper ends such that they will overlap the lower end of the upper section, and means whereby any one of the lower sections may be detachably secured to the upper section.

In testimony whereof I have hereunto signed my name in the presence of the two subscribed witnesses.

WM. MAYO VENABLE.

Witnesses:
HARVEY L. LECHNER,
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