

W. SCOTT.

MEANS FOR COOLING STEREOTYPE CASTING BOXES.

APPLICATION FILED JUNE 20, 1903.

Fig. 1

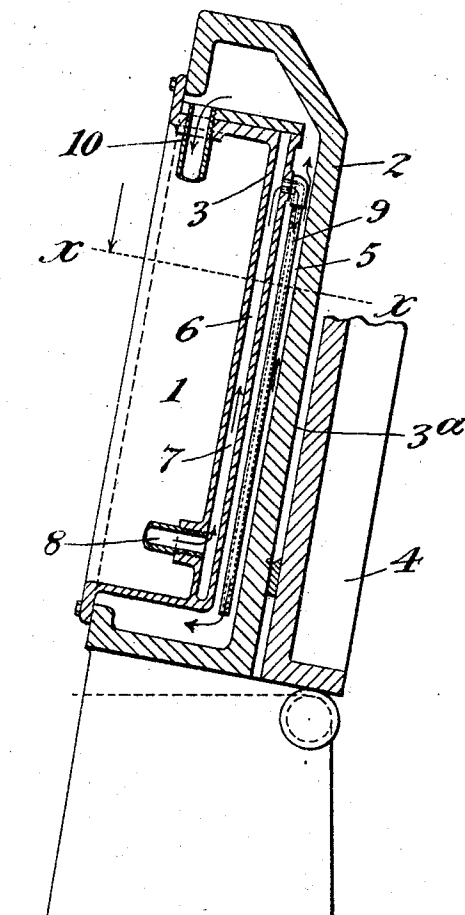
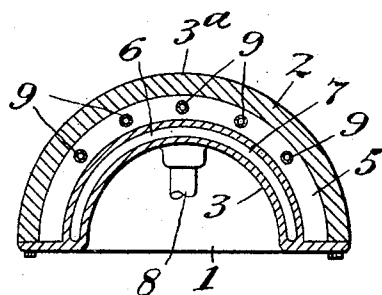


Fig. 2



Witnesses:

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UNITED STATES PATENT OFFICE.

WALTER SCOTT, OF PLAINFIELD, NEW JERSEY.

MEANS FOR COOLING STEREOTYPE-CASTING BOXES.

No. 797,022.

Specification of Letters Patent.

Patented Aug. 15, 1905.

Application filed June 20, 1903. Serial No. 162,359.

To all whom it may concern:

Be it known that I, WALTER SCOTT, a citizen of the United States of America, and a resident of Plainfield, Union county, State of New Jersey, have invented certain new and useful Improvements in Means for Cooling Stereotype-Casting Boxes, of which the following is a specification.

My invention relates generally to stereotype-casting boxes, and has more particular reference to means for cooling the casting-surface of the cope.

The object of the invention is to improve the means for cooling the said casting-surface, and the said invention comprises the herein-after-described features of construction and combination of parts.

In the drawings, Figure 1 is a vertical sectional view of the cope embodying my invention. Fig. 2 is a transverse sectional view of the cope shown in Fig. 1.

Similar characters of reference indicate corresponding parts in the different views.

Broadly, my invention contemplates a preheating of the cold water before it encounters the casting-surface of the upright stationary cope by leading it through connections located immediately adjacent to or in the water-space, which is adjacent to the casting-surface of the cope, so that the water in traveling through the said connections has the chill taken off. This principle is conveniently embodied in the construction shown in the drawings, in which—

1 indicates a cope stationarily supported in an upright position, composed of an outer shell 2 and an inner shell 3, suitably fastened together. The outer shell forms an upright casting-surface 3^a, the plate being cast between it and the movable drag 4.

The general construction of the casting-box is preferably similar to the one shown and claimed in an application filed by me on the 3d day of July, 1901, Serial No. 66,975, the said general structure not being claimed in the present application.

The inner and outer shells when fastened together form an upright water-space 5 immediately adjacent to the casting-surface of the cope. The inner shell carries several pipes and connections and is provided with a cored-out portion 6, forming an upright and upwardly-extending passage 7, leading from the inlet 8. At its upper end the said passage 7 communicates with one or more down-

wardly-extending conduits 9, located in and communicating at its lower end with the upright water-space. 10 is an outlet leading from the said upright water-space. The water enters at the inlet and flows through the upwardly-extending passage and down through the conduits into the water-space and out through the outlet.

By the foregoing means the water will always be heated sufficiently, so as not to chill the cast-plate, as the water in the upright water-space will have a tendency to heat the conduits 9 and the passage 7, thereby taking all the chill off the water before it reaches the upright water-space.

Having thus described my invention, what I claim is—

1. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, connections from the inlet immediately adjacent to the said upright water-space communicating with the same, whereby the water in traveling through the said connections is preheated by the water in the said water-space.

2. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, a conduit located in the said water-space communicating with the latter and with the inlet, whereby the water in traveling through the said conduit is preheated by the water in the water-space.

3. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, an upwardly-extending passage from said water-inlet, and a conduit located in the water-space and communicating with the latter and with the passage from the water-inlet, whereby the water in traveling through the said passage and conduit is preheated by the water in the water-space.

4. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface, on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, connections from the inlet immediately adjacent to the said upright water-space communicating with the

same, whereby the chill is taken off the water in traveling through the said connections by the water in the water-space.

5. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, a conduit located in the said water-space communicating with the latter and with the inlet whereby the chill is taken off the water in traveling through the said conduit by the water in the water-space.

6. In a stereotype-casting mold, an upright stationary cope, an upright casting-surface on the said cope, an upright water-space immediately adjacent to the said casting-surface, a water-inlet, a water-outlet, an upwardly-extending passage from said water-inlet, and a conduit located in the water-space and communicating with the latter and with the pas-

sage from the water-inlet, whereby the chill is taken off the water in traveling through the said passage and conduit by the water in the water-space.

7. In a stereotype-casting mold, the combination with an upright stationary cope having an upright casting-surface, of an upright water-space immediately adjacent to the said casting-surface, a downwardly-extending upright conduit located in, and communicating with, the said upright water-space, an upwardly-extending upright passage connecting with the said conduit, an inlet connected with the said passage, and an outlet connected with the said water-space.

Signed at New York this 11th day of June, 1903.

WALTER SCOTT.

Witnesses:

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