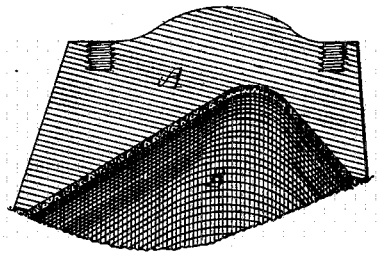
D. SCRYMGEOUR.

MOLDS OR DIES FOR FORMING ARTICLES OF PULP.

No. 191,551. Patented June 5, 1877.



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UNITED STATES PATENT OFFICE.

DAVID SCRYMGEOUR, OF BOSTON, ASSIGNOR TO WILLIAM T. COOK, OF FOXBOROUGH, MASSACHUSETTS.

IMPROVEMENT IN MOLDS OR DIES FOR FORMING ARTICLES OF PULP.

Specification forming part of Letters Patent No. **191,551**, dated June 5, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that I, DAVID SCRYMGEOUR, of Boston, Suffolk county, Massachusetts, have invented certain Improvements in Molds or Dies for Forming Hollow Articles of Pulp, of which the following is a specification:

My present invention relates to means for avoiding the great and almost insurmountable obstacles which have heretofore existed in the production of hollow articles of pulp by reason of the difficulty experienced in getting rid of the water which is expressed from the pulp in the act of pressing the latter in the mold.

Molds have been made with openings of various forms for escape of water, or lined with ribs, each of which, to a great extent, obstructs free escape of water.

My improvement consists, briefly, in lining molds with finely-woven wire-cloth, through the interstices of which the water finds its escape from such mold without carrying with it any portion of the pulp.

The drawing accompanying this specification represents a section of a mold containing my improvement.

In such drawing, A represents a metallic matrix or hollow mold, which, in use, incloses a male die or block, upon which the article to be pressed is placed.

In carrying my invention into effect, I provide myself with a piece, B, of finely-woven wire-cloth, the size of the meshes of which is to be determined by the character of the pulp employed, and I line the interior of the matrix A with this wire-cloth.

When the mold A, with its lining B, is placed over the counter die or block, with the sheet of pulp interposed between, and pressure is applied to the mold, the water expressed from the pulp by such pressure escapes through the meshes of the lining, and about the corrugations of the wires of which such lining is composed, and flows freely from the mold.

I have demonstrated the feasibility and utility of my invention in the production of boot-counters, of which I have been manufacturing large quantities, and I find the wire-cloth lining to entirely obviate the objections heretofore existing by reason of the obstruction to the escape of water from the mold.

I claim—

A mold for making hollow articles of paper-pulp, whose interior surface, shaped to conform to the article to be molded, is smooth—that is to say, without water-escape ducts, corrugations, or channels—in combination with a lining of woven wire or other reticulated material, as and for the purposes set forth.

DAVID SCRYMGEOUR.

Witnesses:

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