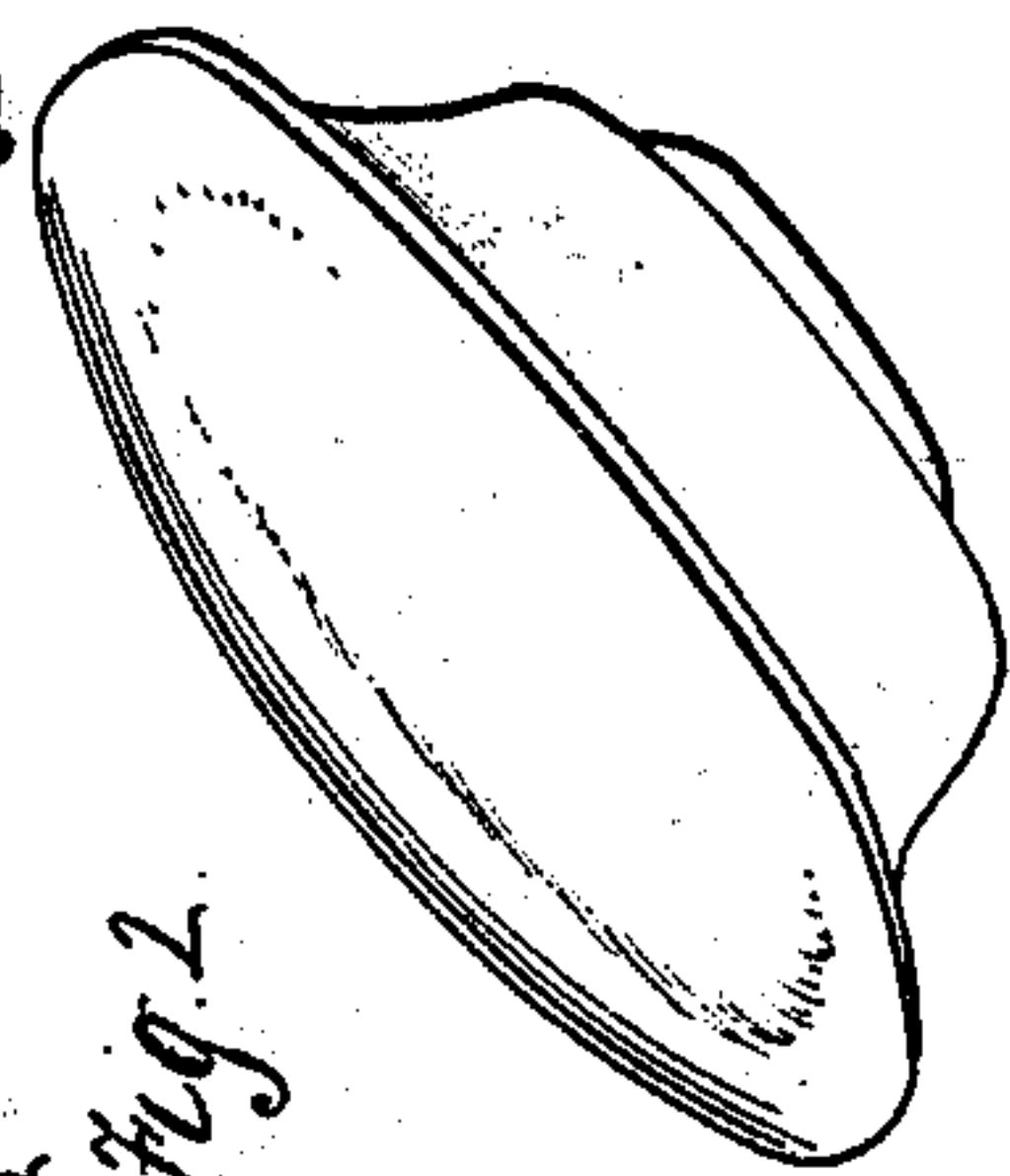
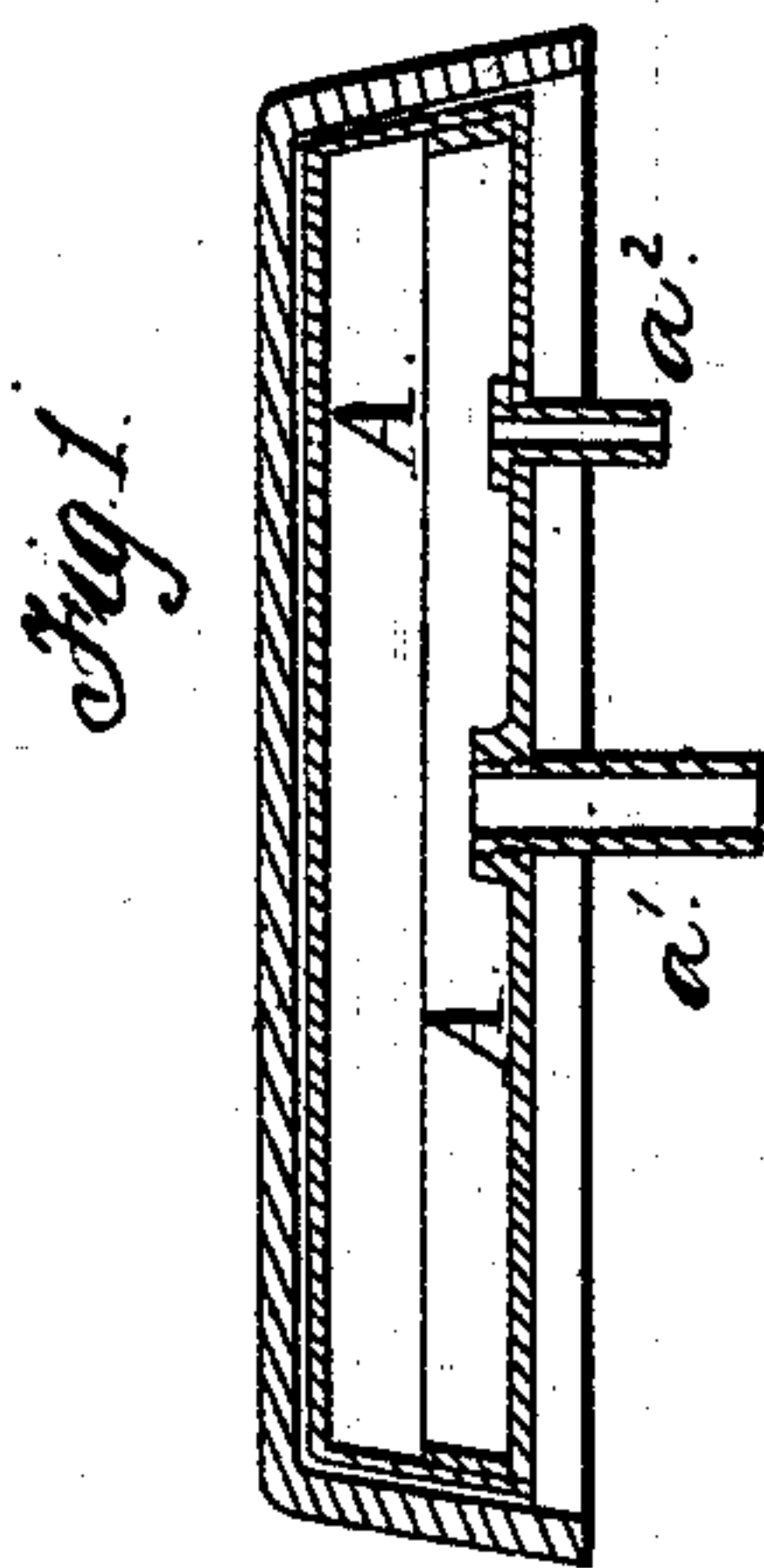


*A. & I. Jennings.*  
*Paper Molding.*  
*Nº 71,390. Patented Nov. 26. 1867*



*Witnesses*  
*Phos Fische*  
*W. Frewin*

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*Aug. Jennings*  
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# UNITED STATES PATENT OFFICE

AUGUSTUS JENNINGS AND ISAAC JENNINGS, OF FAIRFIELD, CONNECTICUT.

## IMPROVEMENT IN THE MANUFACTURE OF PAPER VESSELS.

Specification forming part of Letters Patent No. 71,390, dated November 26, 1867.

*To all whom it may concern:*

Be it known that we, AUGUSTUS JENNINGS and ISAAC JENNINGS, of Fairfield, in the county of Fairfield and State of Connecticut, have invented a new and useful Improvement in the Manufacture of Paper Vessels, &c.; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a detail sectional view, showing a vessel in place upon a former. Fig. 2 is a perspective view, showing a vessel of another shape.

Similar letters of reference indicate corresponding parts.

Our invention has for its object to furnish an improved manner of forming or giving the desired shape to vessels, and other articles made of water-proof paper. And it consists in forming and drying the paper to form the vessel or other article over hollow metallic formers of the desired shape, heated by steam or hot air admitted to their interior, as hereinafter more fully described.

A represents a former of the requisite shape for forming shallow pans, bottoms of buckets, and other articles of such a depth that the bottom has to be made of a separate piece. The former may be made of sheet, plate, or cast metal, as may be desired, and should have the exact form intended to be given to the vessel.  $\alpha^1$  is a pipe through which the

steam or hot air is introduced into the former A.  $\alpha^2$  is a small pipe through which the condensed steam or vapor may escape. The paper pulp is formed from some fibrous material in the ordinary way into sheets or tubes, according to the requirement of the article to be formed, either upon a Fourdrinier machine or a cylinder. It is then removed, while still wet, and placed upon a former, A, of the required shape, and as it is dried by the steam or hot air within the former A, it is worked by hand or by a roller or other simple tool (where the article is of such a form as to admit of the use of a tool) into the desired form, so that as it dries it may contract upon the former and take its exact shape. In this way reflector backs, cones, drain and water pipes, conical tubes, basins, pans, buckets, trays, articles of furniture, &c., may be formed, the paper in each case being worked and contracted into the exact form of the former.

We claim as new and desire to secure by Letters Patent—

Forming and drying the paper to form the vessel or other article over hollow metallic formers of the desired shape, heated by steam or hot air introduced into their interior, substantially as herein shown and described.

The above specification of our invention signed by us this 23d day of September, 1867.

AUGUSTUS JENNINGS.  
ISAAC JENNINGS.

Witnesses:

JAMES T. GRAHAM,  
CHARLES H. NASH.