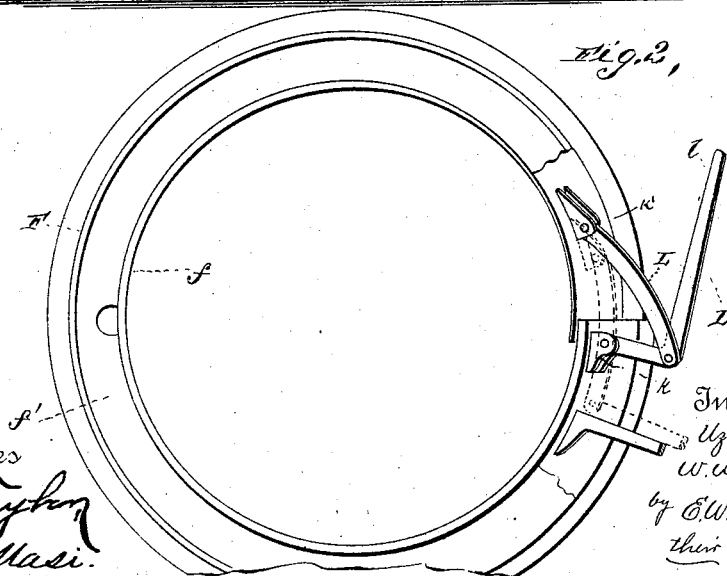
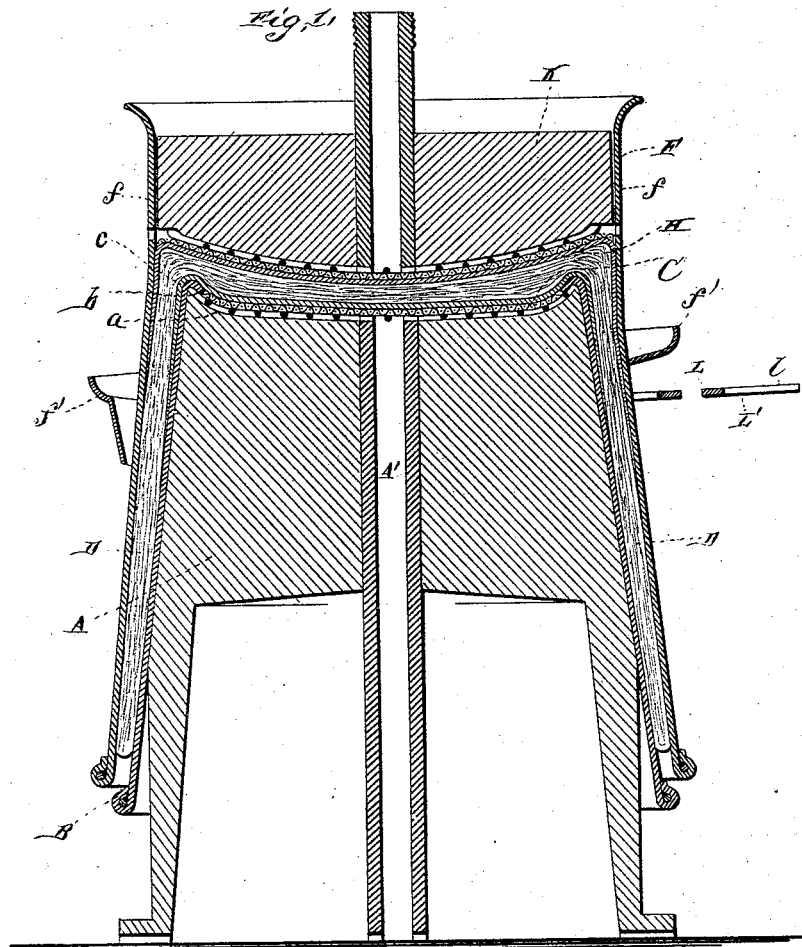


(No Model.)

U. HULL & W. W. McEWAN.
MACHINE FOR MANUFACTURING PAPER PAILS.

No. 455,718.

Patented July 7, 1891.



Witnesses
Edw. Taylor
Phillips

Inventors.
Ugal Hull,
W. W. McEwan,
by *E. W. Anderson*
their Attorney

UNITED STATES PATENT OFFICE.

UZAL HULL AND WILLIAM W. McEWAN, OF BELVIDERE, NEW JERSEY, ASSIGN-
ORS TO THE NEW YORK WOOD FIBRE COMPANY, OF SAME PLACE.

MACHINE FOR MANUFACTURING PAPER PAILS.

SPECIFICATION forming part of Letters Patent No. 455,718, dated July 7, 1891.

Application filed September 17, 1890. Serial No. 365,268. (No model.)

To all whom it may concern:

Be it known that we, UZAL HULL and WILLIAM W. McEWAN, citizens of the United States, and residents of Belvidere, in the county of Warren and State of New Jersey, have invented certain new and useful Improvements in Machines for Manufacturing Paper Pails; and we do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical central section through the device, showing the parts in operative position. Fig. 2 is a top plan view of the same, showing the lever-clamp.

This invention has relation to means for facilitating the manufacture of paper pails; and it consists in the novel construction and combinations of parts, being in some respects an improvement on the construction shown in the patent issued to us on November 11, 1890, No. 440,594, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the base-block or press-head, the top *a* of which is of hollow concave form, and is provided with drainage-channels converging to a central opening leading to a drain-pipe A'.

Upon the concave top of the base-block is placed the wire-cloth concave guard and strainer-piece C, and this guard is held in position upon the base-block A by means of the inward flange *b* of the removable holder B, which is of stout metal, and is designed to receive the wet paper tubular blank of which the pail is to be formed. Before the paper tube is placed upon the holder the cloth guard *c* is placed over the wire-cloth piece C to prevent the particles of pulp from entering the meshes thereof and closing the same. This cloth piece also prevents the bottom of the pail from adhering to the wire-cloth.

The tubular paper blank is indicated at D. It is designed to be placed upon the holder B, and it has an upward extension above the

top of the same, said extension being designed to be saturated and bent downward and centrally upon the top of the base-block or press-head, where it is punctured with a needle-instrument and worked into a pulpy mass of homogeneous character, its particles being prevented from adhering to the wire-cloth strainer by means of the cloth guard *c*.

H indicates a cloth binder, which is placed over the pulpy mass which is designed to form the bottom of the pail, and said binder serves to prevent the particles of the pulp from adhering to the wire-cloth strainer of the follower K, so that said strainer is kept clear. The follower K is usually formed with a convex face, which is channeled and provided with a wire-cloth strainer, and said follower is designed, when the parts are placed in the press, to descend upon the soft mass on the top of the base-block and express the water therefrom while giving it form and consistency, so that a suitable bottom shall be provided for the pail.

In order to hold the parts in position, an exterior jacket or bandage F is provided. This jacket is cleft, and is formed with the perforated neck portion *f* around the follower and with the drain-channels *f'* around the skirt portion. It is also provided with a lever-clamp L L', which, as indicated in the drawings, is fastened on closing, the position of its parts being such as to hold it in locking position until the handle is operated to release them. This lever-clamp consists of the angle-lever L', having one end of its shorter arms pivoted between lugs *k* near one of the meeting edges of the jacket and its other arm *l* forming a handle portion. A slightly-curved arm or link is pivoted to the angle of the lever at one end and at its other end to the lugs *k'*, near the opposite meeting edge of said jacket, so that as the said lever is brought down to the position shown in dotted lines in Fig. 2 it will clamp said jacket securely in place. As the handles of the lever-clamp project at right angles to the jacket, they afford a convenient means for moving the base-block and the parts connected therewith from under the drop to the press and back again without loss of time—a matter of great importance in op-

erating with paper-pulp, which is liable to harden with great rapidity, and when so hardened is incapable of being condensed in the homogeneous and intricate manner desired.

Having described this invention, what we claim, and desire to secure by Letters Patent, is—

1. In a pail-forming device, the combination, with the base-block, the wire strainer, cloth guard, and drain therefor, of the follower, the wire strainer and cloth guard therefor, and the removable holder, the exterior jacket or bandage, and the lever-clamp thereof, substantially as specified.

2. The combination, with the base-block

having the hollow concave top and the drainage-channels converging to a central opening in said top, and the covering therefor, of the follower having the channeled convex face, the removable holder, the exterior cleft jacket or bandage having the perforated neck portions, and the draining-channels and the lever-clamp or fastening for said jacket, substantially as specified.

In testimony whereof we affix our signatures in presence of two witnesses.

UZAL HULL.

WILLIAM W. MCEWAN.

Witnesses:

ISRAEL HARRIS,
MADISON RAISLEY.