

No. 648,281.

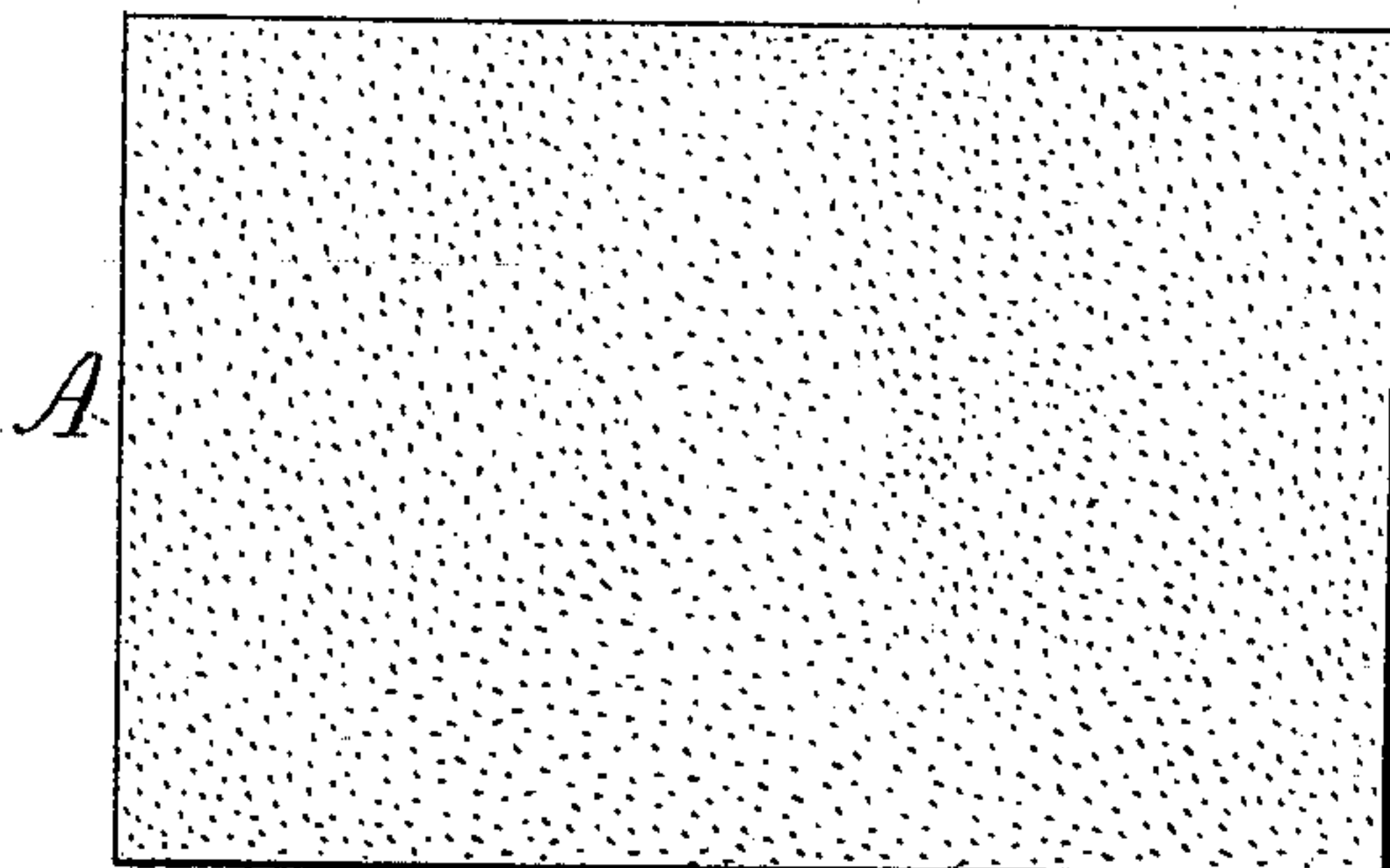
Patented Apr. 24, 1900.

W. W., A. & F. McEWAN.  
MANUFACTURE OF ARTICLES FROM PULP.

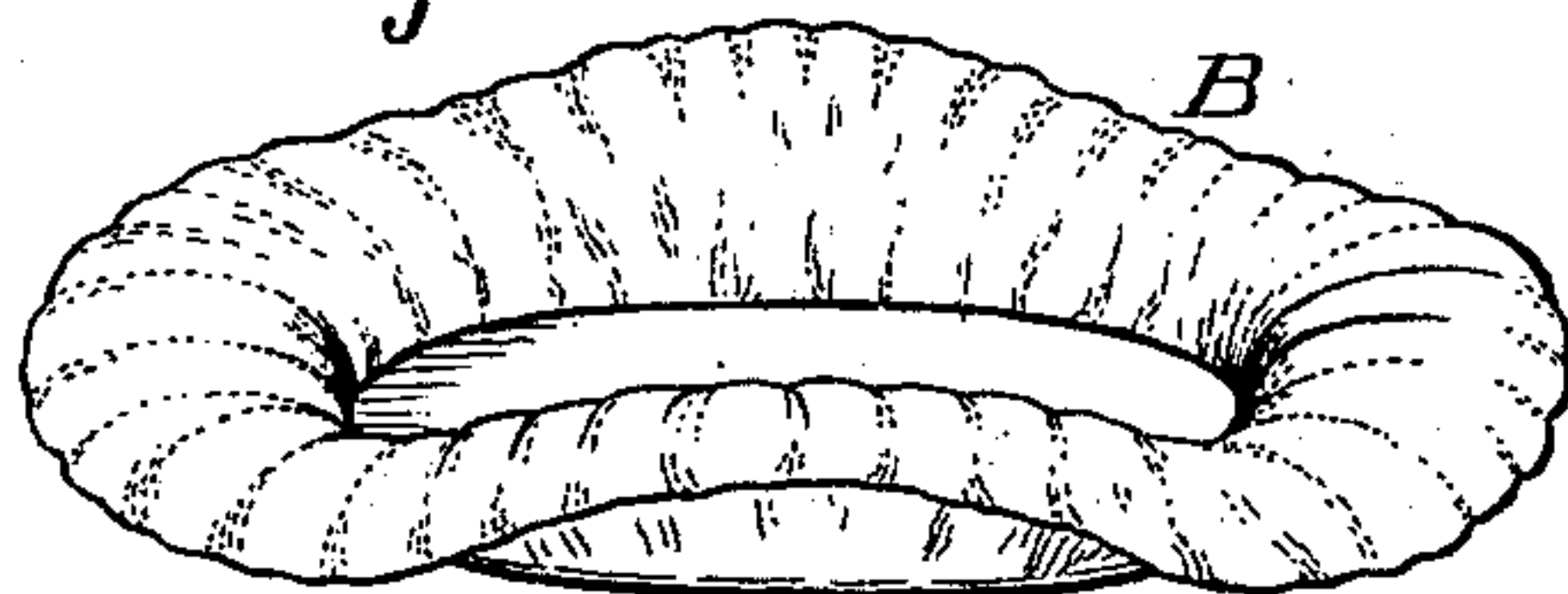
(Application filed Sept. 6, 1899.)

(No Model.)

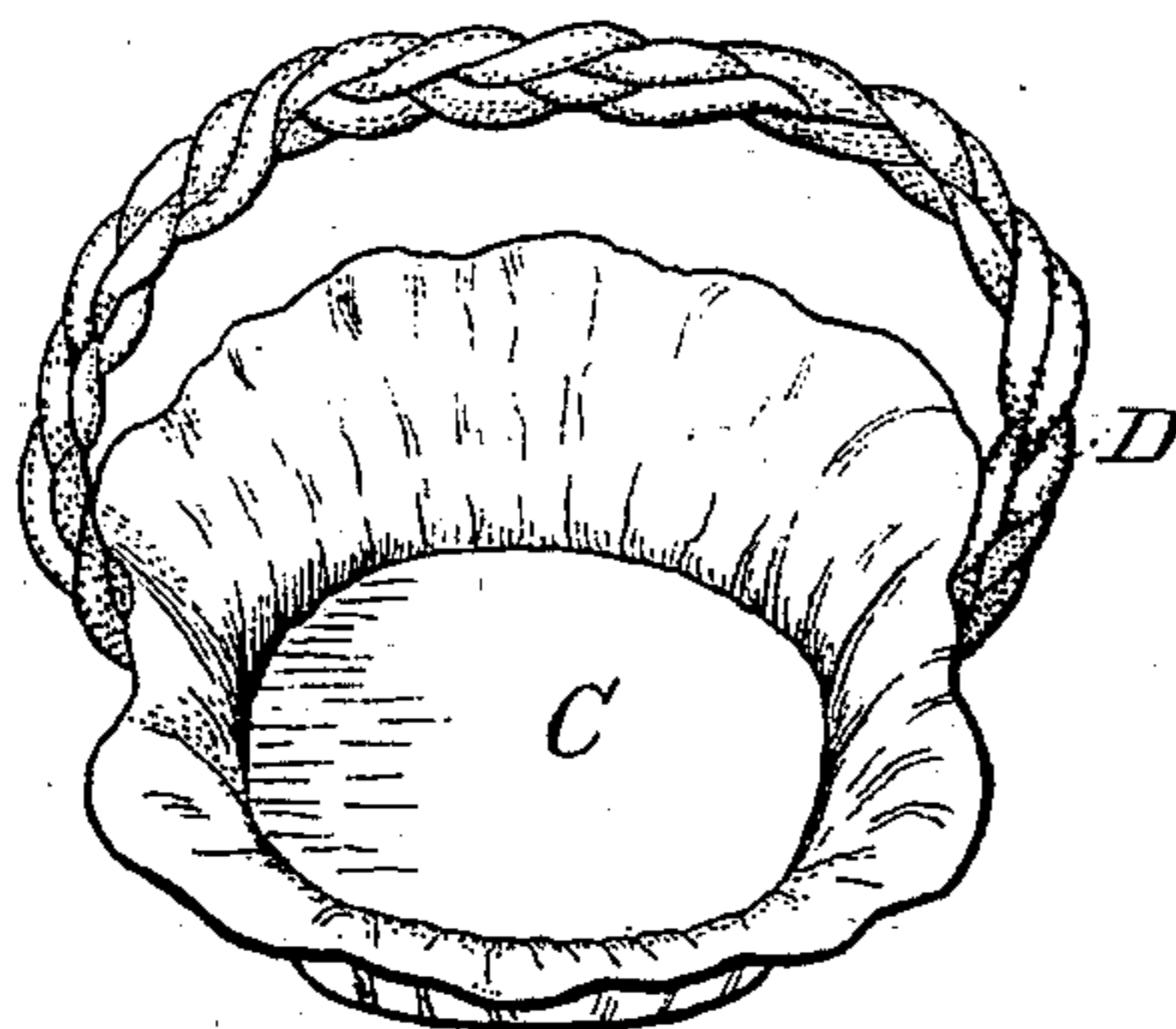
*Fig. 1.*



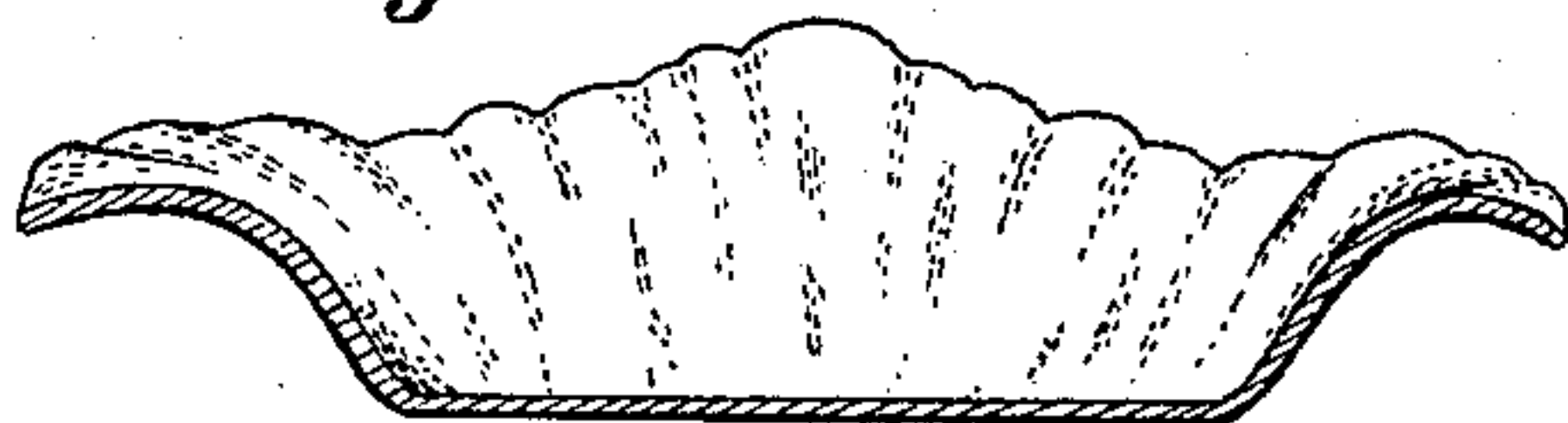
*Fig. 2.*



*Fig. 3.*



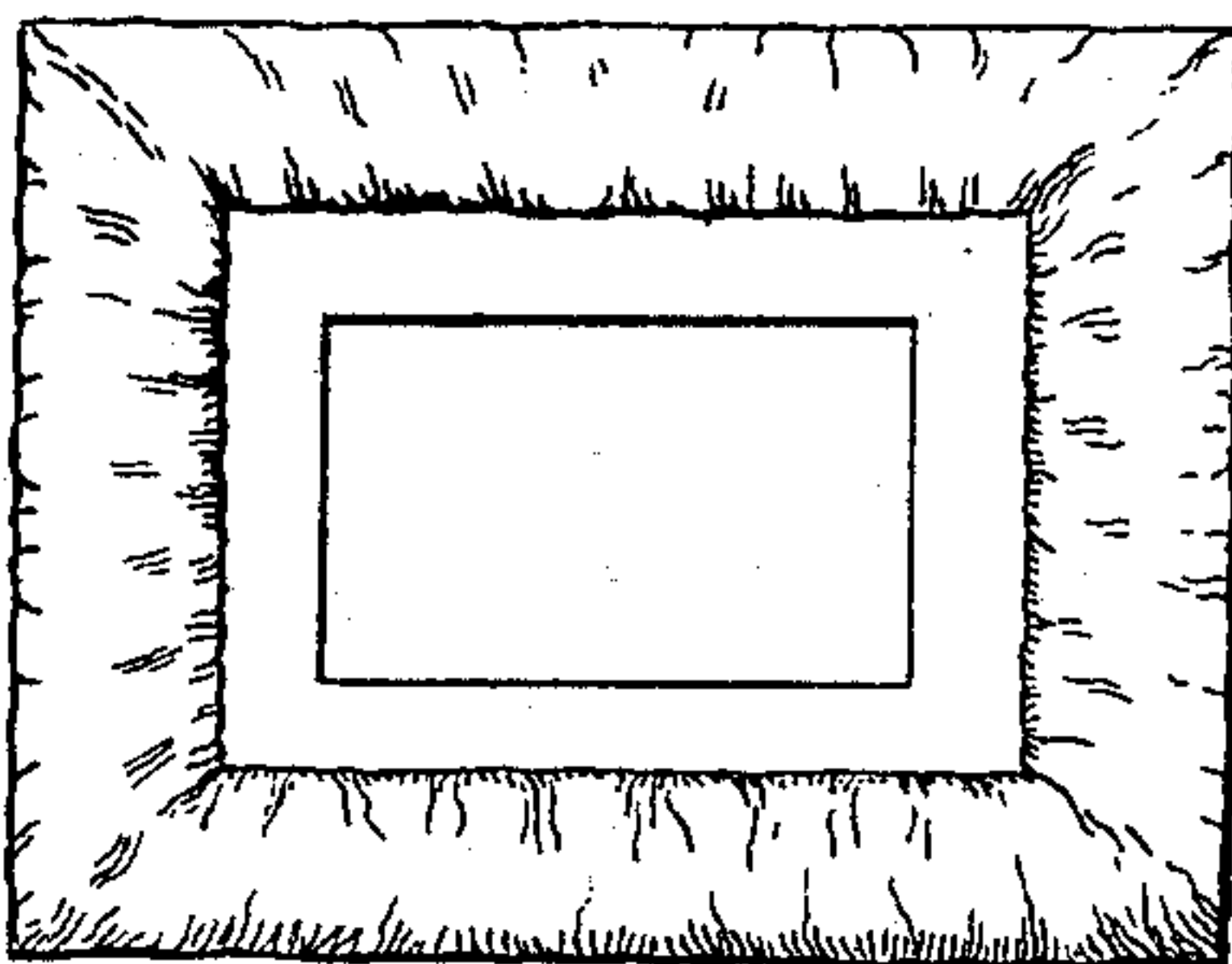
*Fig. 4.*



*Fig. 5.*



*Fig. 6.*



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# UNITED STATES PATENT OFFICE.

WILLIAM W. McEWAN, ARTHUR McEWAN, AND FRANK McEWAN, OF WHIPPANY, NEW JERSEY, ASSIGNORS TO THE STONY BROOK PAPER COMPANY, OF SAME PLACE.

## MANUFACTURE OF ARTICLES FROM PULP.

SPECIFICATION forming part of Letters Patent No. 648,281, dated April 24, 1900.

Application filed September 6, 1899. Serial No. 729,639. (No specimens.)

*To all whom it may concern:*

Be it known that we, WILLIAM W. McEWAN, ARTHUR McEWAN, and FRANK McEWAN, citizens of the United States, and residents of Whippany, in the county of Morris and State of New Jersey, have invented certain new and useful Improvements in the Manufacture of Articles from Pulp; 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 plan view of the blank. Fig. 2 is a perspective view of a completed tray. Fig. 3 is a similar view of a basket made according to our process. Fig. 4 is a section through the tray shown in Fig. 2. Figs. 5 and 6 are detail views of a picture-frame made according to our process.

This invention has relation to the manufacture of articles of irregular, curved, plicated, or scalloped form from paper or other fibrous pulp, and has for its object the provision of an article of this character in which are retained for decorative and ornamental purposes the surface creases, folds, and characteristic surface configuration which a sheet of moist pulp naturally assumes when manipulated to change its initial form.

In carrying out our invention we take a sheet of paper or other fibrous pulp, such as is indicated at A, cut to the proper size and in such a condition of moisture as to enable it to be readily bent up and manipulated to the desired form. This shaping or manipulation varies in character according to the particular article to be made and in every case is without pressure of such character as to prevent or destroy the creased or ridged formation of surface which results. In the manner indicated we form the desired article—such, for instance, as the tray B in Fig. 2 or the basket-body C (shown in Fig. 3) or the picture-frame, (shown in Fig. 6.) The

basket-body may afterward be provided with a handle D of any suitable character, such as braided strips of pulp, whose ends are glued to the body.

The blank from which the desired article is made is manipulated or bent by hand or any suitable tool. In the case of a tray or basket the edge portions only of the blank are bent upward. In the case of a picture-frame almost the entire blank or only the marginal portions thereof may be shaped upward. In each case, however, it is designed to permanently preserve the creases or ridges which result in shaping the article to form. These creases or ridges are such as result from plication or gathering of the surplus material of the pulp blank when it is formed, as above described, into the desired article, and these plications, creases, or ridges form a distinctive feature of the present invention.

After formation the articles may be finished by the application of any suitable coating, glue being usually an element thereof. This coating, which fills up the pores of the article, also serves to keep it from flattening out under the influence of moisture.

By employing colored or printed pulps or by decorating with gold-paint or the like, or by a combination of both, articles of great beauty may be made, their distinguishing and characteristic feature being in all cases the naturally ridged, creased, or embossed surface configuration above described.

Our invention is applicable to the manufacture of card-trays, small baskets and other receptacles, picture-frames, and a large variety of useful articles, as well as those of purely-decorative character.

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

The process of manufacturing articles from pulp, which consists in first making a sheet of pulp and shaping the same into a blank of the desired form, second, bending portions of said blank while in a moist condition out

of the plane of the blank into an article of  
manufacture, with pressure of such charac-  
ter as not to destroy the correlative creases  
and ridges naturally assumed by the pulp,  
5 third, drying the article to preserve such  
creases and ridges, and finally applying a fin-  
ishing coating to said article to fill up the  
pores thereof and keep it in form, substan-  
tially as specified.

In testimony whereof we affix our signa-  
tures in presence of two witnesses.

WILLIAM W. MCEWAN.  
ARTHUR MCEWAN.  
FRANK MCEWAN.

Witnesses:

DAVID H. BURNETT,  
WM. A. ROSS.