No. 683,784. Patented Oct. 1, 1901.

G. McCULLOCH.

EMBOSSED ARTICLE.

(Application filed Sept. 28, 1899.)

(Specimens.)

Fig. 2.

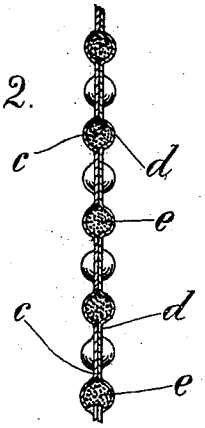


Fig. 1.

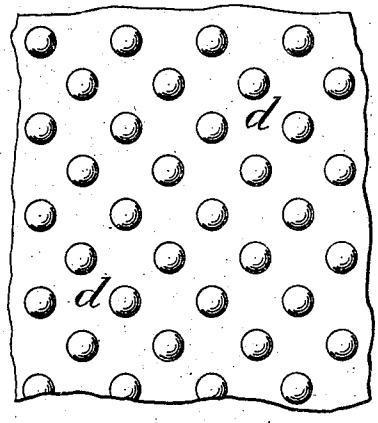


Fig. 4.

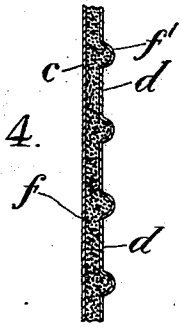
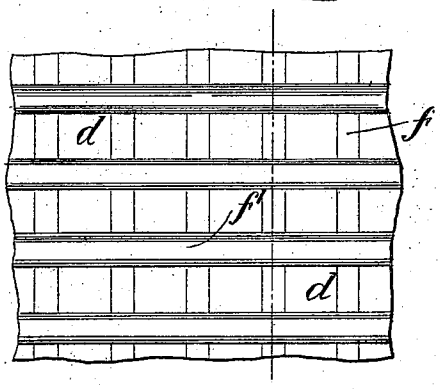


Fig. 3.



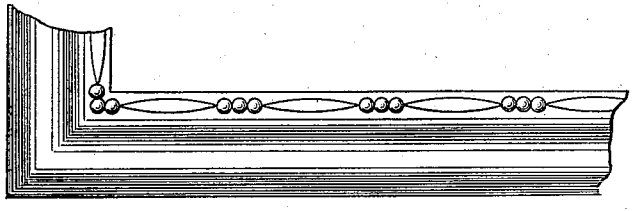


Fig. 5.



Fig. 6.

WITNESSES:
J. Benjamin.
J. Buehler.

INVENTOR:
George McCulloch
By B. Singer,
Atty.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

GEORGE McCULLOCH, OF EDINBURGH, SCOTLAND.

EMBOSSED ARTICLE.

SPECIFICATION forming part of Letters Patent No. 683,784, dated October 1, 1901.

Application filed September 28, 1899. Serial No. 731,998. (Specimens.)

To all whom it may concern:

Be it known that I, GEORGE McCULLOCH, merchant, a subject of the Queen of Great Britain and Ireland, residing at 30 High Calton, Edinburgh, Scotland, have invented certain new and useful Improvements in Embossed Articles, of which the following is a specification.

This invention relates to the manufacture of embossed or raised designs and patterns in paper, paper-pulp, cloth, and such like materials. In order to preserve the shape and form of the designs and patterns, their hollows and cavities are filled with ground cork.

The invention is applicable to the manufacture of picture and other frames, moldings, cushions, bottle-wrappers, paper packings, and such like.

On the annexed sheet of drawings, Figure 1 is a front view, and Fig. 2 a section, of a piece of bottle-wrapper paper packing made in accordance with my invention. Figs. 3 and 4 show another form of bottle-wrapper paper or packing. Fig. 5 is an elevation, and Fig. 6 a section, of part of a picture-frame molding.

In order that my invention may be readily understood by those skilled in the art to which it relates, I will now proceed to describe the procedure I adopt in the manufacture of picture-frame moldings, as shown at Figs. 5 and 6. I cheapen the cost of production very materially by embossing the frame in one piece in a mold of the proper shape. The cavities or cells *a*, formed by the embossing of the molding, are filled with a composition consisting of a mixture of ground cork and shellac or ground cork and glue. The material of the molding may be paper-pulp or paper simply or paper combined with cloth or cloth alone. When a picture-frame is made in this manner, there is of course no necessity for joining the corners as at present. The framing can be gilded in the usual manner or be painted or stained.

Bottle wrappings, linings, and packings may be made of paper having designs or patterns embossed therein and the hollows or cavities of the designs filled with a composition composed of ground cork and glue or other suitable adhesive mixed with a proportion of glycerin, according as the embossed patterns are desired to be comparatively soft or very soft and pliable.

Figs. 1 and 2 show one method of making bottle wrappers and packings. *c* is one sheet of paper, *d* is a second sheet of paper, and *e* is the ground cork interposed between the paper layers. The fabric is manufactured in the piece, the two sheets of paper being fed through between embossing-rolls and the cork filling simultaneously fed in between the sheets.

Figs. 3 and 4 show another pattern of bottle-wrapper or packing paper. In this case the paper sheets *c* and *d* are made with cross-corrugations *f f'*, formed by the cork filling. Of course the embossing-rolls would in this case be made the one with grooves, for forming the corrugations, running from end to end of the roll and the other with grooves running circumferentially around it.

The glue or other adhesive mixed with the cork serves to bind the paper sheets together.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. As an article of manufacture, fabric composed of two sheets of paper each having embossations thereon, and having a plastic and adhesive filling therebetween, said filling occupying the embossations, substantially as set forth.

2. As an article of manufacture, a fabric composed of two sheets of embossed paper, the embossations of one sheet intersecting those of the other, a plastic filling composition therebetween, said filling occupying said embossations, substantially as set forth.

3. As an article of manufacture, a fabric composed of two sheets of embossed paper having a filling composition therebetween, said composition occupying said embossations and being composed of a mixture of an adhesive and of a resilient material, substantially as set forth.

Signed at Glasgow, Scotland, this 15th day of September, 1899.

GEORGE McCULLOCH.

Witnesses:

HUGH. D. FITZPATRICK,

THOMAS GRACE.