

W. E. BROCK.
Composition for Moldings.

No. 146,984.

Patented Feb. 3, 1874.

Fig. 1.

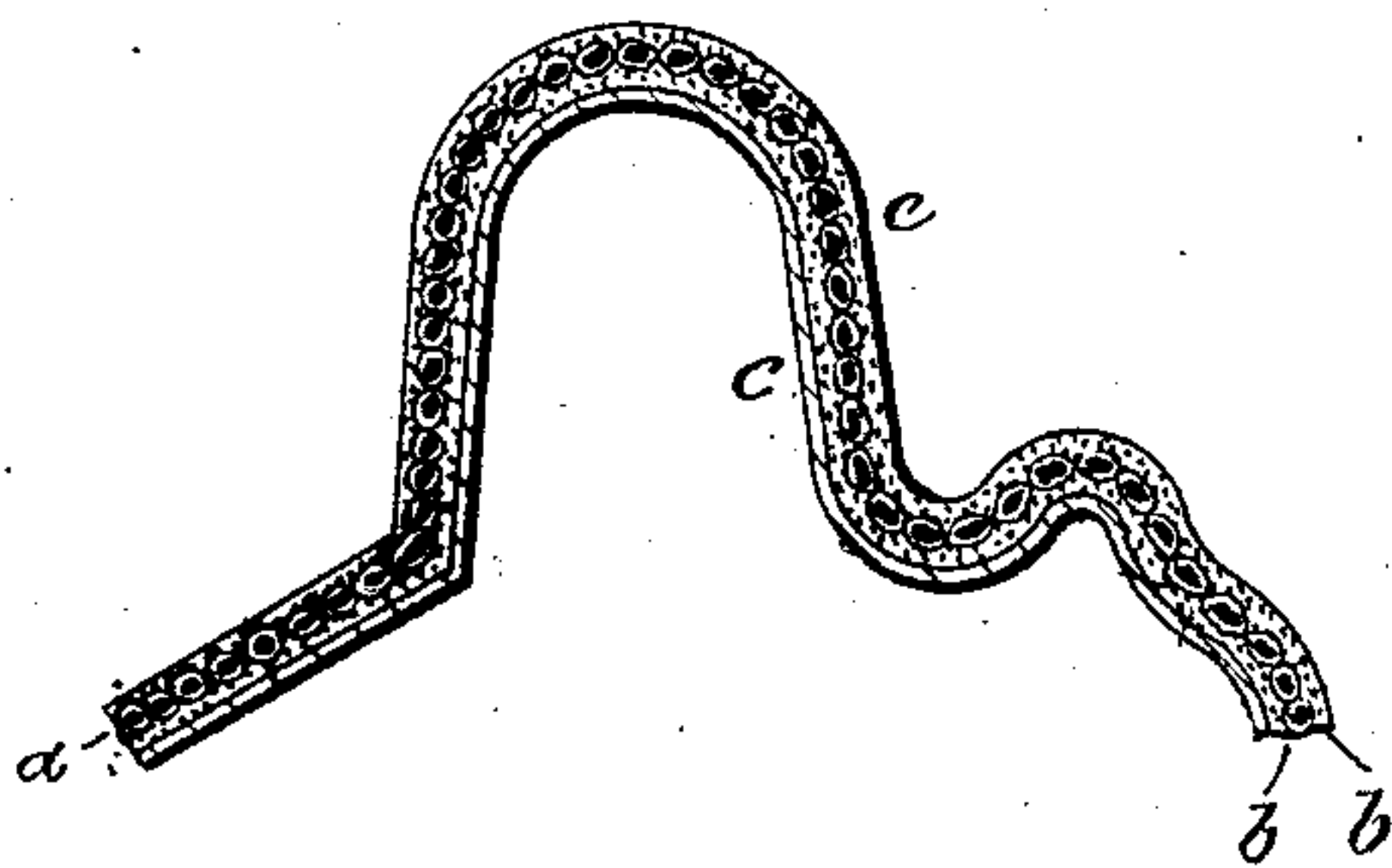


Fig. 2.

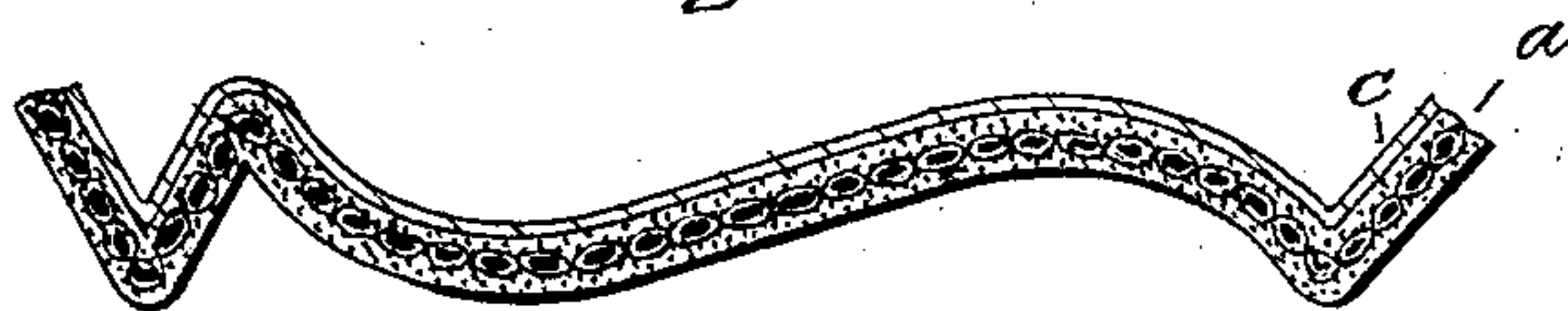
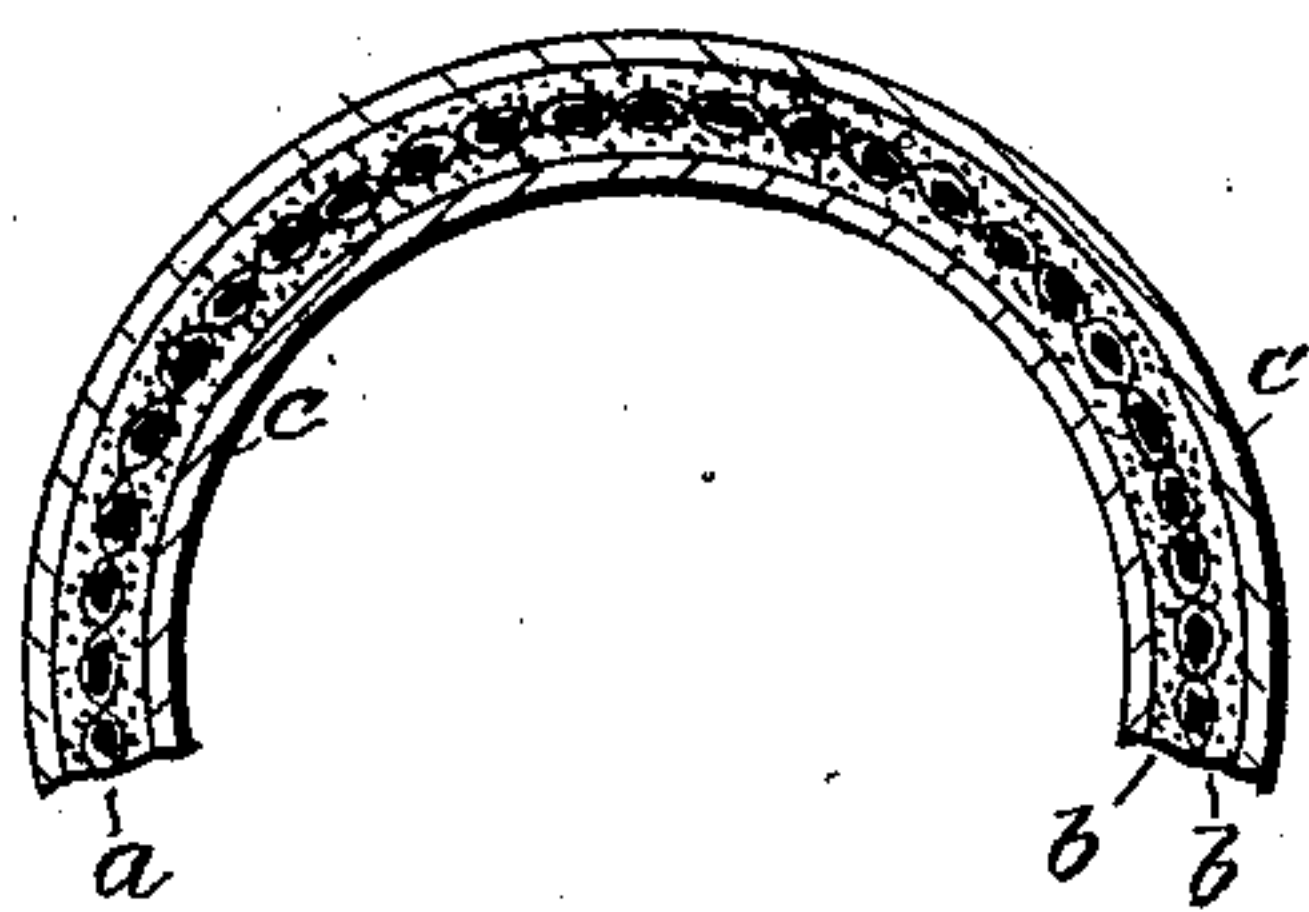


Fig. 3.



WITNESSES.

J. E. Smith.
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WILLIAM E. BROCK, OF NEW YORK, N. Y.

IMPROVEMENT IN COMPOSITIONS FOR MOLDINGS.

Specification forming part of Letters Patent No. **146,984**, dated February 3, 1874; application filed July 3, 1873.

CASE A.

To all whom it may concern:

Be it known that I, WILLIAM E. BROCK, of New York city, in the county and State of New York, have invented a new Composition for the Manufacture of Moldings for House-Trimings, Picture-Frames, Banister-Rails, and various other articles, of which the following is a specification:

The invention relates to a novel method of treating a woven fabric as a foundation for the construction of moldings and various other purposes to render it stiff and strong and susceptible of receiving a high polish or any desired ornamentation; and it consists in first saturating such fabric with a mixture of glue, varnish, and whiting in about the following proportions: say, glue, one pound; whiting, one pound; and varnish, four ounces—dissolved and rendered liquid with a sufficient quantity of water and the requisite degree of heat. The fabric thus prepared is then coated with finely-sifted sawdust, which is rolled in to cause it to combine with said mixture and with the fabric, to which it adheres, so that when dry the surface may be treated with one or more coatings of the above mixture, containing about double the quantity of whiting. This may be applied with a brush in one or more coats until sufficient body is obtained for rubbing down and polishing the surface.

For molded articles, or such as have to be brought into form by rolling or pressure, this coating must be made into a dough sufficiently dry not to stick or adhere to the rolls or molds, and by such pressure may be caused to adhere to the sawdust, which had previously become saturated with a solution of a similar nature, though of less consistency. When dry this surface should be rubbed down with sand-paper, and another coat may be applied, which is also to be finished in the same manner. This may be repeated until a satisfactory body and surface are obtained.

The sawdust coating may be omitted in many molded articles when the finishing-coat to be rolled in possesses sufficient body to give the necessary stiffness.

In the accompanying drawing, Figure 1 represents a cross-section of a molding adapted for a picture or mirror frame. Fig. 2 is a similar view of a molding for door-facings, cornices, and the like. Fig. 3 is a section of a heavier article suitable for the construction of furniture, carriage-bodies, or other articles requiring strength combined with lightness.

The different layers are indicated by letters, as follows: *a* represents the woven fabric; *b*, the layer of sawdust on each side, which is caused to adhere by being rolled into the saturated fabric; and *c* is the finishing-coat, which may be applied on one or both sides, as hereinbefore described, according to the purpose for which it is to be used.

I am aware that decorative ornaments have been constructed of plaster-of-paris (calcined gypsum) with a mixture of glue and alternate layers of canvas, but such plaster would not answer my purpose, as it hardens too rapidly, and when set has no flexibility, and consequently is not adapted for such articles as my composition is designed for; such, therefore, I do not claim.

What I claim as new, and desire to secure by Letters Patent, is—

A woven or felted fabric saturated with glue, varnish, and whiting, as specified, and subsequently coated with sawdust and finished as herein set forth, as a new article of manufacture.

W. E. BROCK.

Witnesses:

W. MORRIS SMITH,
H. A. DANIELS.