

(Specimens.)

J. M. BAKER.

MATERIAL FOR THE DECORATION OF THE INTERIOR WALLS AND
CEILINGS OF BUILDINGS.

No. 331,469.

Patented Dec. 1, 1885.

Fig 1

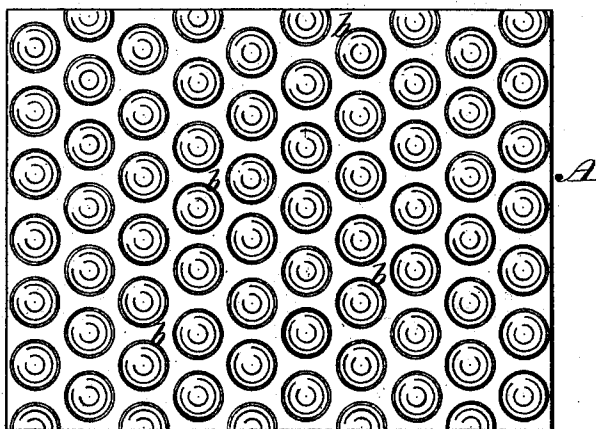
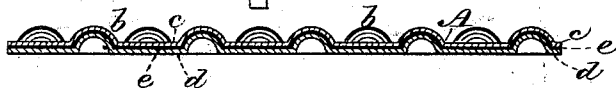


Fig 2



Fig 3



WITNESSES

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MATERIAL FOR THE DECORATION OF THE INTERIOR WALLS AND CEILINGS OF BUILDINGS.

SPECIFICATION forming part of Letters Patent No. 331,469, dated December 1, 1885.

Application filed February 24, 1885. Serial No. 156,867. (Specimens.)

To all whom it may concern:

Be it known that I, JACOB M. BAKER, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Material for the Decoration of the Interior Walls and Ceilings of Buildings, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a plan of a piece of my improved material for decorating walls, &c. Fig. 2 is a vertical section of the same. Fig. 3 is a similar section illustrating the method which I employ of imparting additional strength and stiffness to the material.

My invention has for its object to provide an ornamental embossed wall-covering composed of a material which will enable the raised design thereon to be made more prominent than heretofore and better able to resist any tendency to become flattened or lose its shape and clearly-defined character.

To this end my invention consists in a wall-covering composed of "chemical wood fiber," having a raised design or pattern embossed thereon, said material being especially adapted for the purpose on account of the elasticity, strength, and toughness of the fibers which, when stretched in the embossing process, will permanently retain the form imparted thereto and offer the maximum resistance to any pressure or tendency of the raised surface to resume its original flat condition.

In the said drawings, A represents a sheet or piece of my improved material, which is preferably made like wall-paper, in long sheets, and is composed of what is commercially known as "chemical wood fiber," which is produced in any well-known manner, as, for instance, by boiling wood in the form of chips *in vacuo* with a strong solution of caustic soda, or other suitable substance, in order to eliminate all the amylaceous, glutinous, and siliceous matters therefrom and leave the fibers of the wood in a comparatively pure state.

In carrying out my invention I take a sheet or roll of the chemical wood fiber above described of the desired thickness, and while

wet or damp produce thereon any desired raised design or pattern *b* in high relief by means of suitable embossing rolls or dies, after which it is allowed to dry, and may then be colored or bronzed, if desired, or it may be colored in the pulp, if preferred.

The chemical fiber above described is especially adapted as a material for embossed wall-coverings, as its great elasticity permits it to be very deeply embossed without liability of breaking as it is stretched, thus enabling designs to be successfully produced in high relief with a smooth and unbroken surface, while after being stretched in the embossing process the strength and toughness of the fibers will cause the design to permanently retain its form and effectually resist any pressure to which it might be subjected in the operation of applying the material to a wall or ceiling, whereby the sharp and clearly-defined lines of a design in high relief are rendered permanent and preserved in their original perfect condition.

I prefer to form each sheet or roll of the material of two thin sheets, *c d*, Fig. 3, of the chemical fiber united by an interposed layer, *e*, of glue, size, or other analogous adhesive substance, and then emboss the design on the sheet thus formed while the glue or adhesive substance is still damp. In this manner when the glue becomes hardened in drying great additional stiffness and strength are imparted to the projecting portions of the raised design, which will be found advantageous in many cases; and it will be seen that by introducing the glue or stiffening substance between the two sheets it is prevented from coming into contact with and clogging the embossing rolls or dies, as would be the case if it were applied as a coating to the outer surface of the material, while the raised figures are left clear and smooth, as desired. I do not, however, wish to confine myself to the employment of any additional stiffening substance, as the peculiar characteristics of the chemical fiber render it well adapted for use when made of a single thickness only without additional stiffening, as seen in Fig. 2.

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

1. As a new article of manufacture, a covering for interior walls, ceilings, &c., com-

posed of chemical wood fiber, having an embossed surface, substantially as set forth.

2. A covering for interior walls, ceilings, &c., composed of two sheets of chemical wood fiber united by an interposed layer of glue or analogous adhesive substance and then embossed before the said glue or adhesive substance becomes dry, substantially as described.

Witness my hand this 18th day of February, 10
A. D. 1885.

JACOB M. BAKER.

In presence of—

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.