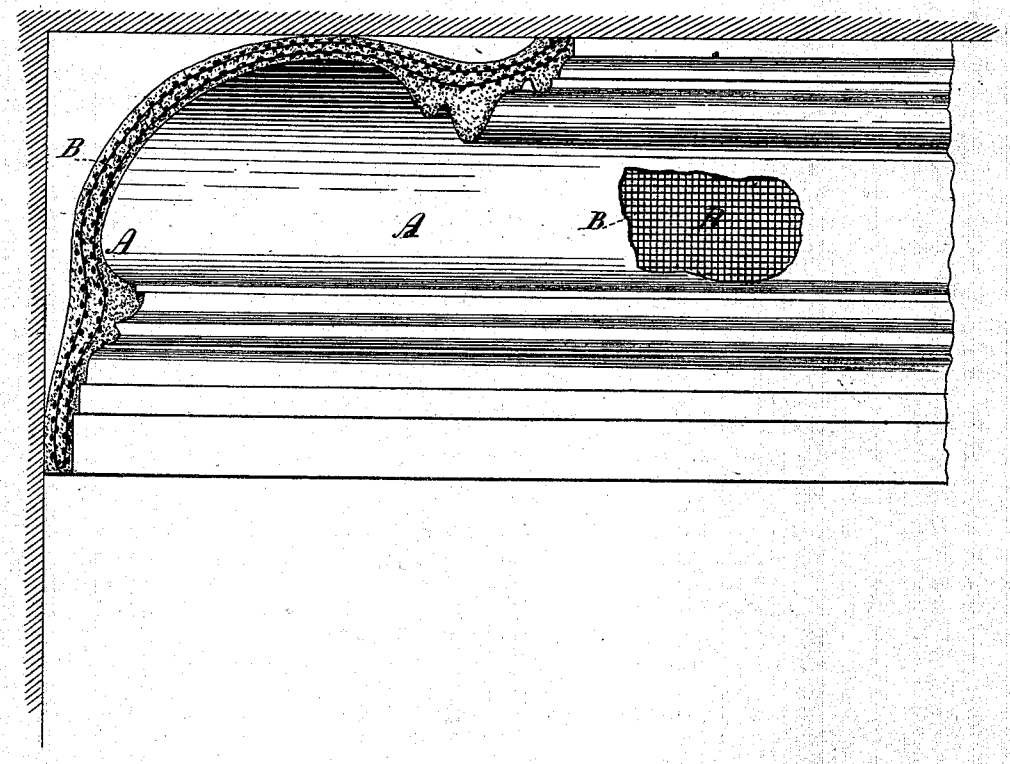
A. D. GODARD.

Stucco Ornaments.

No. 139,781. Patented June 10, 1873.



Witnesses.
A. Ruppert.
W. Bradford

A. D. Godard
Inventor.
By Adolf Eibs
his Atty

UNITED STATES PATENT OFFICE.

A. DÉSIRÉ GODARD, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN STUCCO ORNAMENTS.

[Specification forming part of Letters Patent No. **139,781**, dated June 10, 1873; application filed April 2, 1873.

To all whom it may concern:

Be it known that I, A. DÉSIRÉ GODARD, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Fire-Proof Stucco Ornaments, of which the following is a specification:

The object of my invention is to produce fire-proof stucco ornaments for use as center-pieces, angle-pieces, for ceilings, cornices, and brackets, flower-drops, scrolls, leaves, and a great variety of other architectural ornaments, as well as busts, picture or mirror frames, medallions, &c., combining strength with lightness.

To this end my improvement consists in making such ornaments of thin layers of a compound composed principally of plaster of Paris and glue, and interposing between the layers of the plaster a webbing of burlap, or jute, or a similar textile fabric having open meshes readily penetrated by the plastic material.

To the compound of plaster of Paris and glue may be added phosphate of soda and borax, to increase its hardness and fire-proof quality, also alum to prevent the warping of the ornament while setting; also more or less rock-salt, according as it may be desirable to cause the setting of the compound more or less rapidly.

The mortar may be prepared by dissolving one part of glue in one hundred parts of water, moderately warm, to which should be added plaster of Paris sufficient to make a liquid paste of the consistency of oil-paint when ready for use; however, I preferably add to these ingredients one part of phosphate of soda, one part of borax, one part of alum, and one part of rock-salt. The proportion of rock-salt should be less when a slower setting of the mortar is required; magnesia or even mother-water may be substituted for rock-salt, whenever the former may be procured to advantage.

In making ornaments I first cover the mold or matrix, by means of a stiff brush, with a thin layer of the above-mentioned mortar, then place upon such layer a webbing of burlap, jute, or the like fabric, and then again spread a layer of the mortar upon the burlap until it is entirely embedded. The artist by using the brush can reach into all cavities and beneath all undercuts, and thus reproduce without difficulty the true form of the mold. The textile webbing used should be of the fire-proof kind, such as is employed in theaters for screens for the foot-lights.

Ornaments thus made will be exceedingly light and strong, and, being made tough by the introduction of a textile webbing, are proof against breaking or cracking, unlike those made of plaster of Paris alone.

The smaller ornaments, such as cornices of ordinary size, require no other fastening than that afforded by rows of nails driven through them along their edges into their supports. Additional fastening and supporting devices may, however, be used with these as well as with those of larger size.

In the accompanying drawing, which illustrates a cornice in section, A represents the compound of plaster of Paris and glue, &c., and B the textile webbing, of which two thicknesses are shown as employed.

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

1. Fire-proof stucco ornaments, composed of a compound of plaster of Paris and glue in layers, and an interposed textile webbing, substantially as specified.

2. Fire-proof stucco ornaments, composed of a textile webbing embedded in layers of a compound prepared by mixing in water plaster of Paris, glue, phosphate of soda, borax, alum, and rock-salt, substantially and as for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

A. D. GODARD.

Witnesses:

A. DULUD,

A. BOUCHET.