

EDWARD WESTERMAYR.

Composition Roof.

No. 122,296.

Patented Dec. 26, 1871.

Fig. 1

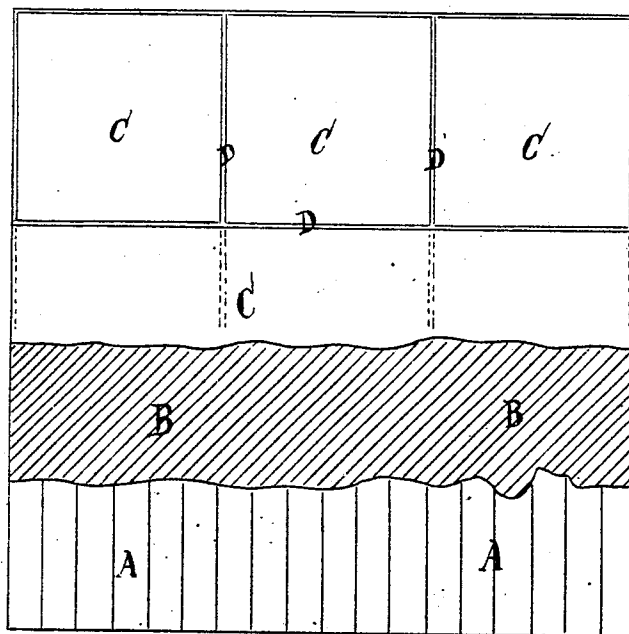
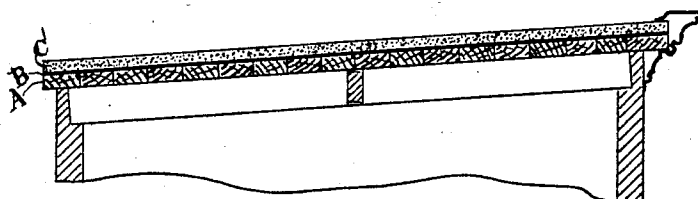


Fig. 2



Witnesses:

*Julius Wilke*

*N. O. O'Brien*

Inventor:

*Edward Westermayr*  
*by Thos. S. Sprague*  
*his Attorney*

# UNITED STATES PATENT OFFICE.

EDWARD WESTERMAYR, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN COMPOSITION ROOFS.

Specification forming part of Letters Patent No. 122,296, dated December 26, 1871.

### SPECIFICATION.

#### *To whom it may concern:*

Be it known that I, EDWARD WESTERMAYR, of Chicago, in the county of Cook and State of Illinois, have invented a certain Improvement in Roofs; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, which, together with the letters and figures marked thereon, forms part of this specification, and in which—

Figure 1 is a top or plan view of my improved roof, being partly broken away to show the fibrous foundation. Fig. 2 is a section of same.

Like letters of reference made use of in the several figures indicate like parts.

#### *Nature of the Invention.*

The first part of this invention relates to a new roofing material, forming, when finished, a stone-like surface, covering the whole roof without any spaces or joints. The second part of this invention relates to the peculiar mode of affixing the above surface to the boards of an ordinary roof.

To enable those skilled in the art to make and use my invention, I will proceed to describe the same with particularity, making use, in so doing, of the aforesaid drawing.

#### *General Description.*

The roof is first covered in the usual manner with the boards A, upon which is laid a covering of felt or tarred rough-surfaced paper, B, or its equivalent. The rough surface of the fibrous material is desirable to facilitate the adherence of the stone-like material C, hereinafter more fully described, and which is laid over it while in a plastic state. This gives the boards under the stone and fiber a chance to shrink and swell without cracking and breaking the surface of the roof, the stone and its fibrous elastic foundation being entirely independent of their expansion and contraction from the boards of the roof. The surface material C consists of a composition stone or cement, laid on while still plastic. I do not limit myself to any special mixture or artificial stone

for this material, but find the following to be a very good covering, becoming, after a time, very hard, and not being liable to crack in drying, and also quite impervious to water and frost. I take about three measures of dry sand, one measure of gravel, one measure of cement. (Common Portland cement answers excellently well for this purpose, although other cements may be employed.) These ingredients are mixed intimately together in a dry state. I then dissolve about one pound of lime, one-fourth pound of liquid glass or *natron silicum*, one-eighth pound of alum, in about six gallons of water. With this liquid I mix the dry material above mentioned, using enough of the liquid to produce a dough-like mass or mortar. The roof, already properly covered with the fibrous material B, is divided into squares of eight to ten feet in length and breadth, by means of narrow strips, as is shown in the drawing D—this for the purpose of insuring an even distribution of the surface material. In about forty-eight hours the surface material will have become hard enough to allow of the removal of the strips D, when the cavities left thereby may be filled with fresh material and the whole allowed to harden until completely dry, after which, as a further preservative from the weather, the whole is covered with a coat of common linseed-oil.

The above proportions and ingredients may be somewhat varied, and I do not intend to limit myself to the exact proportions given.

#### *Claims.*

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

1. The combination, with the fibrous foundation B, of an artificial-stone surface, C, laid on while moist and plastic, substantially as specified.
2. The composition artificial stone for roofing purposes, compounded in the manner, proportions, and ingredients, substantially as herein specified.

EDW. WESTERMAYR.

Witnesses:

J. W. MUNDAY,  
JULIUS WELCKE.

(126)