

UNITED STATES PATENT OFFICE.

WILLIAM GREEN, OF CLEVELAND, OHIO.

IMPROVED ROOFING-CEMENT.

Specification forming part of Letters Patent No. 53,140, dated March 13, 1866.

To all whom it may concern:

Be it known that I, WILLIAM GREEN, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful Improvement in Roofing-Cement, Paint, &c.; and I do hereby declare that the following is a full and complete description of the ingredients used therein and of the manner of compounding and using the same.

I first take iron ore, of the quality found in the vicinity of Lake Superior, which is a silicate of the oxide of iron, and roast it, for the purpose of causing it to pulverize readily, and reduce it to a finely-divided state by any convenient means. Those parts that are reduced to a fine powder are separated from the coarser particles by bolting or sifting. The finest portion I use for paint, and the coarser grade I use for roofing-cement. This should also be sifted, so that it shall average about the fineness of common rifle-powder. I next mix this with petroleum or mineral oil, either in the crude state or after the most volatile portions are distilled off, so that the mass may have the consistence of a thick paste. Flaxseed-oil may be used in place of the mineral oil, if desired, or the two oils may be united in any proportions. To this paste I add for every pound about an ounce of a compound known among painters as a "drier," which is composed of gum-shellac, linseed-oil, and litharge, or ox-

ide of lead. The mass may be then thinned, if desired, with spirits of turpentine or naphtha to render it sufficiently thin to spread with ease with a trowel.

The finer quality is mixed in the same manner and thinned, so that it can be spread with a paint-brush, and this constitutes my paint, and it can be used as such, and after having been laid soon becomes hard and dry.

The roofing-cement may be laid on boards, shingles, canvas, or other suitable material. The surface upon which it is laid should be smooth, even, and firm. The cement is laid on with a trowel to the thickness of perhaps the tenth part of an inch, more or less, and it soon becomes hard and firm.

This cement may also be used as a finish to the front of brick buildings, and for this purpose the bricks should be first prepared with a coating of oil, to prevent the absorption of oil from the cement.

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

A roofing-cement composed of the ingredients herein set forth, and prepared and compounded in the manner specified.

WILLIAM GREEN.

Witnesses:

EDM. F. BROWN,
J. LATHROP.