UNITED STATES PATENT OFFICE.

C. C. HOFF, OF ALBANY, NEW YORK, ASSIGNOR TO E. P. RUSSELL.

IMPROVEMENT IN THE CONSTRUCTION OF MASTIC ROOFING.

Specification forming part of Letters Patent No. **14,267**, dated February 12, 1856.

To all whom it may concern:

Be it known that I, C. C. HOFF, of the city and county of Albany and State of New York, have invented a new and useful Composition called and known as "Hoff's Patent American Compound Roofing-Cement," for the purpose of roofing buildings in place of tin, shingles, or slate, and for other purposes; and I do hereby declare that the following is an exact description of the said invention.

This invention consists in the following combinations and proportions each to the other for making what is called "Hoff's American Compound Cement."

The following is a specification of the various articles and combinations forming said cement: When I want to make a new roof I use a compound made of the following substances and the following proportions: one barrel of South Carolina pitch, one gallon of rosin-oil, ten pounds of ground plaster, which is well boiled and well stirred while boiling, so as to mix it thoroughly. I then saturate canvas or cotton cloth by passing it through the above solution while hot. I then pass the canvas or cloth, while warm, through the flour of soapstone, after which it is ready to spread on the roof, and is the basis of my roofing compound. After the roof is covered with this saturated canvas it is prepared to receive a covering or cement made of the following ingredients: To eighteen gallons of gas-tar add one gallon of rosin-oil, one gallon of refuse oil of turpentine, one and a half pound copal gum, twenty pounds of mineral paint, and ten quarts of the flour of charcoal. These ingredients must be well stirred immediately to prevent consolidation at the bottom of the barrel until it is thoroughly mixed. This compound is then applied to the roof, previously prepared with the canvas, by spreading it over the same, forming an entire coating to the roof, over which I then spread a smaltzing of sand, rendering it impervious to water and proof against fire, and not liable to the action of the atmosphere, and not liable to crack or slab off, and at the same time air-tight, which is not the case with some of the compounds tried for roofing purposes.

Having thus fully described the nature of my invention, I do not claim the saturation of canvas; but

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

The following articles forming my compound for roofing and other purposes: first, a mixture of South Carolina pitch, rosin-oil, ground plaster, and soapstone for saturating the cloth; second, a mixture of refuse oil of turpentine, copal gum, flour of charcoal, and mineral paint, which finishes my compound when spread over the first-named articles, thus forming my compound for roofing and other purposes, as set forth.

Albany, October 17, 1855.

C. C. HOFF.

Witnesses:

WM. S. PADDOCK,

C. R. LEE.