

UNITED STATES PATENT OFFICE.

SAMUEL HERBERT, OF DETROIT, MICHIGAN.

ROOFING COMPOUND.

SPECIFICATION forming part of Letters Patent No. 484,794, dated October 25, 1892.

Application filed July 14, 1892. Serial No. 439,998. (No specimens.)

To all whom it may concern:

Be it known that I, SAMUEL HERBERT, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Roofing Compounds, of which the following is a specification.

My invention relates to roofing compounds, and more particularly to compositions for use in the construction of car-roofs or other structures which are subjected to racking and jarring strains, which will crack or destroy the roof structure.

The object of my invention is to provide a roofing composition adapted for use for outside roofing and also for roofing for freight-cars which will be efficient, durable, and pliable, not liable to get hard in cold weather nor soft in hot weather, which may be cheaply manufactured, and which will not be liable to crack or be injured when subjected to jars and strains when used upon freight-cars.

I have discovered that an efficient, cheap, durable, and pliable roofing compound not liable to get hard in cold weather or soft in warm weather may be made of the following materials mixed together in the following proportions, viz: tar, forty-five parts, by weight, of rosin, cattle's hair, one part, by weight, and

graphite nine parts, by weight. The graphite before mixing is ground very fine. The ingredients are all thoroughly mixed together, the rosin and tar being melted or rendered liquid by heat. The ingredients being thus mixed together, the composition is ready for use in the usual manner. The proportions named are those which I prefer to use, though they may be varied more or less.

I have found that by using powdered graphite with the tar, rosin, and hair in the proportions substantially as above set forth the composition is rendered permanently pliable and is prevented, on the one hand, from getting hard in cold weather, so that it would be liable to crack when subjected to jars or strains, and is also prevented, on the other hand, from getting soft in warm weather, and thus weakened and rendered liable to be punctured or to melt and flow off.

I claim—

The roofing composition hereinabove described, and consisting of tar, rosin, hair, and graphite, in the proportions substantially as set forth.

SAMUEL HERBERT.

Witnesses:

C. H. HUTCHINS,
CHAS. W. RICE.