

UNITED STATES PATENT OFFICE.

CHARLES TAYLOR, OF MONTREAL, QUEBEC, CANADA, ASSIGNOR OF TWO-THIRDS TO JOSEPH JAMES AND ENOCH JAMES, BOTH OF SAME PLACE.

PLASTIC COMPOUND FOR ROOFING.

SPECIFICATION forming part of Letters Patent No. 270,151, dated January 2, 1883.

Application filed November 8, 1882. (No specimens.)

To all whom it may concern:

Be it known that I, CHARLES TAYLOR, of the city of Montreal, in the district of Montreal and Province of Quebec, in the Dominion of Canada, have invented a certain new and useful Plastic Compound for Roofing; and I do hereby declare that the following is a full, clear, and exact description of the same.

The object of the present invention is to produce a plastic compound for roofing and other like purposes which will be cheap, durable, and easily applied, and at the same time fire and frost proof, impervious to water, and not liable to crack. Many other advantages will be derived from the use of my invention, which will be readily understood by those skilled in the art.

The compound is formed as follows: I first take one part of that variety of the hornblende family of minerals which is called "actinolite," and having ground same to a fine condition, or until the same is reduced as finely as possible without destroying the fiber by any suitable machine, I mix therewith an equal quantity of coal-tar or its chemical equivalent, or sufficient to make the mixture plastic enough to be applied with a trowel.

The compound thus formed is adapted for roofing or other purposes where its qualities will be desirable, and is applied in any suitable manner.

The compound may be applied over one or

more sheetings of roofing-felt, or direct to the boarding, if desired, the fibrous actinolite serving to bind the coal-tar firmly and hermetically seal the lighter oils contained therein, which, without the admixture of fiber, would evaporate, and thus have the effect of hardening the coal-tar to such an extent that the roofing would crack and become otherwise unserviceable, while by my invention the roofing retains its softness and pliability for years.

In some cases, where a cheap roofing is desired, I may lessen the quantity of actinolite, leaving only sufficient to bind the compound together and keep it flexible, and substitute for the proportion removed an equal or greater quantity of carbonate of lime or red pyrite or oxide of iron, or both, which materials are known to be cheap, durable, and fire-proof. In all cases a light coating of sand is applied to the compound after it has been laid, and the whole properly leveled.

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

A plastic compound for roofing and other like purposes composed of actinolite ground to a consistency in which the fiber is not destroyed and coal-tar or its chemical equivalent, substantially in the proportions specified.

CHARLES TAYLOR.

Witnesses:

R. A. KELLOND,
C. R. McDOWELL.