

# UNITED STATES PATENT OFFICE.

THOMAS J. LANGLEY, OF EAST CAMBRIDGE, ASSIGNOR TO HIMSELF AND C. P. CONANT, OF BOSTON, MASSACHUSETTS.

## IMPROVEMENT IN COMPOSITIONS FOR COATING SHINGLES.

Specification forming part of Letters Patent No. 117,647, dated August 1, 1871.

*To all whom it may concern:*

Be it known that I, THOMAS J. LANGLEY, of East Cambridge, in the county of Middlesex and State of Massachusetts, have invented a new and Improved Composition for Coating Shingles; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates to an improved composition for shingles, slate being a prominent ingredient of the same, so that the appearance and many of the qualities, without the corresponding cost, weight, &c., of genuine slate shingles, may be imparted to those made of wood. The compound consists of the following ingredients, in about the proportions named, to wit: Bright varnish, one quart; petroleum, crude, three-fourths of a quart; resin-oil, one quart; ultramarine blue, eight ounces; bolted slate, four pounds; fine salt, three ounces; calcined plaster, two ounces.

The mechanical mixture of these elements results in a liquid in which, when shingles are dipped all over, they receive a coating which renders them fire and water-proof, prevents them from decaying, will not peel off, and has every appearance of slate without possessing either its weight or brittleness. When applied to wood it also makes good blackboards. When spread upon sheet metal it has the same preservative effect as upon wood, and presents the appearance of slate sheets.

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

The compound herein described, composed of the ingredients set forth.

T. J. LANGLEY.

Witnesses:

E. B. BLASLAND,  
E. PEARSON.