

UNITED STATES PATENT OFFICE.

RICHARD S. LEWIS, OF ROCKVILLE, CONNECTICUT, ASSIGNOR TO JONATHAN H. LEWIS.

IMPROVEMENT IN CONCRETE COMPOSITIONS FOR WALKS, FLOORING, &c.

Specification forming part of Letters Patent No. **109,524**, dated November 22, 1870.

To all whom it may concern:

Be it known that I, RICHARD S. LEWIS, of Rockville, county of Tolland and State of Connecticut, have invented certain new and useful Improvements in Concrete Composition for Flooring, Carriage-Ways, Walks, &c.; and to enable others skilled in the arts to compound and use the same, I will proceed to describe.

The nature and object of this invention is to produce greater solidity, incombustibility, and durability, while at the same time I am enabled to prepare the compound for use at a cost very little if any exceeding the cost of the ordinary concretes now in use, while it can be as easily laid or bedded, and rapidly becomes set or hardened for use.

Compound.

It consists of coal or pine tar, asphaltum or roofing-pitch, shellac, asbestos, and sulphur.

Proportions

Are somewhat variable, according to circumstances. To a barrel of coal-tar add thirty pounds of asphaltum or roofing-pitch, and from six to ten pounds of shellac, and about ten pounds of asbestos, and about ten pounds of sulphur. These ingredients are well com-

pounded together in the usual way of preparing like ingredients, and then mixed thoroughly with sand, gravel, broken stone, and carefully laid in the desired place and rolled or pounded with heavy roller or pestle.

The number of coats, the thickness of the coats, and the coarse or fine stone, sand, or gravel may be varied, as circumstances require.

Thus I am enabled to produce a solid, cheap, and durable carriage-way, walk, or floor, the sulphur acting as a deodorizer, and the asbestos to render it incombustible, and the whole combined to produce a new and useful concrete for floorings, carriage-ways, and walks.

I believe I have thus shown the nature and advantage of this invention, so as to enable others skilled in the art to use the same therefrom.

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

A compound of the ingredients, in the proportions and for the purpose set forth.

RICHARD S. LEWIS.

Witnesses:

A. PERRY PECK,
EDWARD C. CRAFTO.