

UNITED STATES PATENT OFFICE.

HIRAM BURLEW, OF LOCK HAVEN, PENNSYLVANIA.

IMPROVED COMPOSITION FOR CONCRETE PAVEMENTS.

Specification forming part of Letters Patent No. 36,338, dated September 2, 1862.

To all whom it may concern:

Be it known that I, HIRAM BURLEW, of Lock Haven, in the county of Clinton and State of Pennsylvania, have invented a new and Improved Composition for Concrete Pavements; and I do hereby declare that the following is a full, clear, and exact description of the same.

This invention consists in a composition of pine-tar, gravel, sand, coal-ashes, and calcined plaster, mixed together in the manner and in about the proportions hereinafter described, so as to produce a composition which is free from smell, and which becomes in a short time perfectly hard and weather and water proof.

The proportions in which I mix my ingredients together are about as follows: gravel or broken stone, thirty parts; coarse sharp sand, wentyparts; coalashesandcinders, ten parts; calcined plaster, about two parts; pine-tar, about ten parts, or as much as the combination of the other materials will absorb.

The manner in which I mix the several ingredients of my composition together is as follows: All the dry ingredients, except the plaster, I place together in a pile and run it through a half-inch sifter, and to the pile of fine stuff I add the plaster. I then add as much pine-tar to each pile as the materials constituting the same will absorb, and mix them separately. The coarse pile forms the under layer and the fine materials the upper or finishing coat.

The thickness of the pavement will vary from two to six inches, according to the locality and the amount of wear and hard usage it will be required to bear. In laying the pavement I make use of heavy pressure, applied either by a roller, or by stamping, or by lever-power, as may be most convenient.

The principal advantages of my paving compound are that the same is entirely free from any unpleasant smell, it is water-proof, frost-proof, and fire-proof, and it becomes harder and harder the older it gets, so that the same, when once properly laid, will become more and more enduring. It is particularly adapted for the preservation of the foundations of houses both inside and outside, and for paving cellar-floors of dwelling-houses, and for shop and warehouse floors, &c.; and it may also be used for sidewalks in streets or similar purposes.

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

The employment or use of a composition for paving, made of the ingredients herein specified and mixed together in the manner and in about the proportion described.

HIRAM BURLEW.

Witnesses:

THOS. W. POREMAN,
ORIN T. NOBLE.