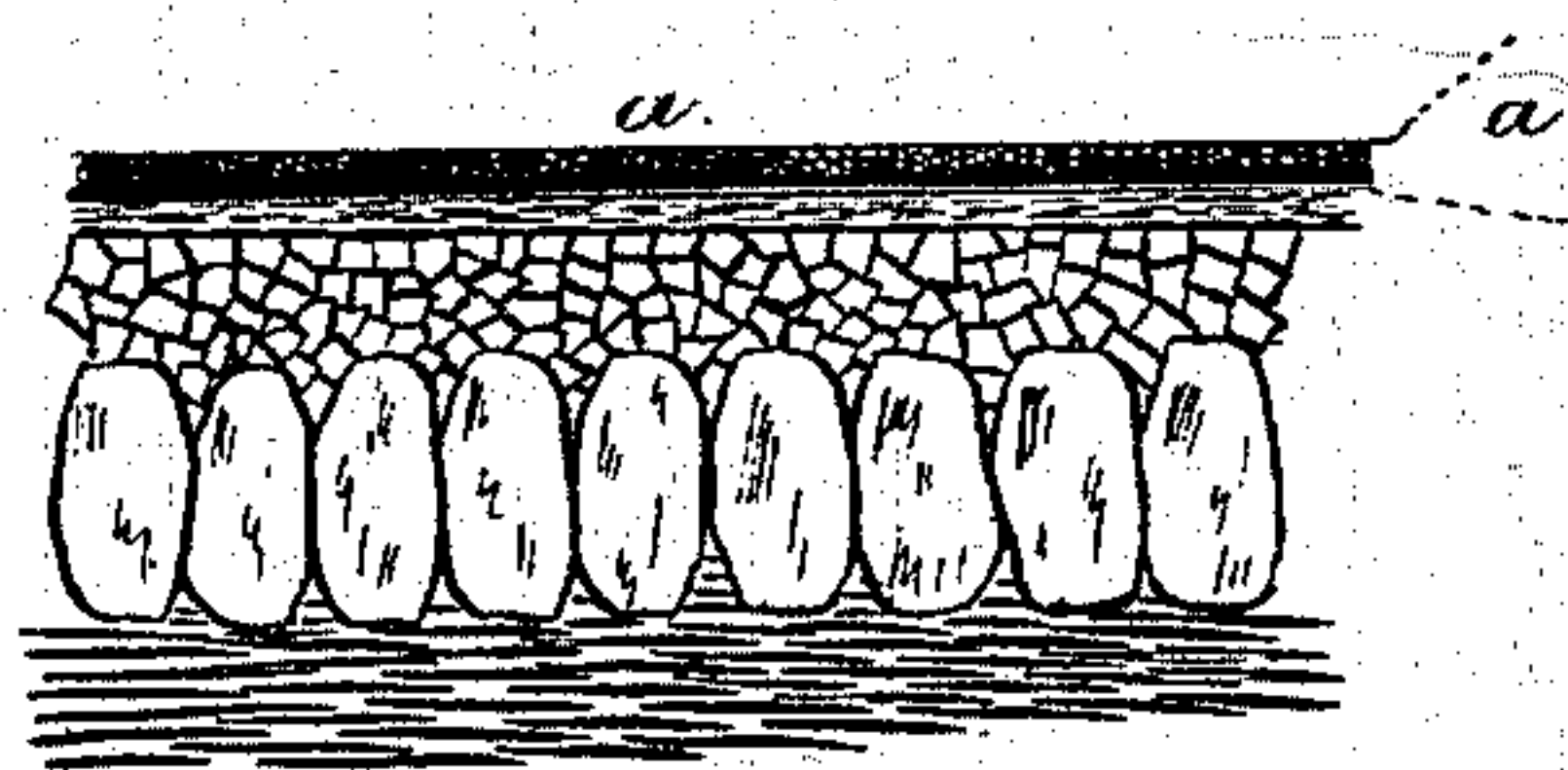


N. B. ABBOTT.
Composition Pavements.

No. 139,848.

Patented June 17, 1873.



Inventor

Witnesses,

Chas. A. Smith
Geo. V. Pickney

Nathan B. Abbott
Lemuel W. Perrell

att'y

UNITED STATES PATENT OFFICE.

NATHAN B. ABBOTT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN COMPOSITION PAVEMENTS.

Specification forming part of Letters Patent No. **139,848**, dated June 17, 1873; application filed September 24, 1872.

To all whom it may concern:

Be it known that I, NATHAN B. ABBOTT, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Composition Pavements, of which the following is a specification:

This invention relates to an improved surface for composition pavements.

The foundation or body of the pavement is to be laid in the ordinary manner and of the required thickness, according to the use for which it is intended. A reference is hereby made to patents No. 88,139 and No. 93,280 as descriptive of composition pavements; and my improvements are available with all pavements of this class.

It is sometimes found that pavements of the class referred to become disintegrated, in the surface especially, and require repairs. My invention is for preventing the disintegration, and thereby rendering the pavement more durable, and also for repairing and surfacing old or injured pavements.

I make use of a composition composed of tar and creosote, substantially such as set forth in my patent No. 112,764, but instead of mixing with the same sand, gravel, ashes, or other material, I employ the bituminous material in a hot state, and spread the same thoroughly and evenly upon the pavement-surface to be coated by means of a mop or broom; and while in this condition I spread upon the bituminous material a layer of grit, of nearly uniform thickness, proportioned to the bituminous material. This grit is composed of small, hard, clean stones of approximate uni-

form size, the same being separated by a sieve of about a quarter of an inch mesh to remove the larger stones, and by a screen of about an eighth of an inch mesh to allow the finer or dusty particles to fall away from the grit.

The surface may be rolled to press the grit into the bituminous material and consolidate the same.

A pavement formed in this manner is very durable, because the wear comes upon the particles of grit, and there is not dust, neither is there any tendency to break the particles of bituminous material off and injure the pavement and form dust thereof, and the strong tenacious bituminous material aforesaid becomes a bond of union between the particles of grit, and effectually excludes moisture from the foundation pavement.

It is preferable to employ the grit in a dry and heated condition.

In the drawing, I have represented my improvement as applied to the composition pavement shown in Letters Patent No. 88,139, of 1869. The layer of bituminous material and grit is shown at *a*.

I claim as my invention—

The surface for composition pavements, composed of the bituminous material and grit, prepared and laid substantially as specified.

Signed by me this 19th day of September, A. D. 1872.

NATHAN B. ABBOTT.

Witnesses:

GEO. T. PINCKNEY
CHAS. H. SMITH.

500 wms