

# United States Patent Office.

RUSSELL FISK, OF NEW YORK, N. Y.

Letters Patent No. 69,738, dated October 8, 1867; antedated July 20, 1867.

## IMPROVED COMPOSITION FOR CONCRETE PAVEMENTS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, RUSSELL FISK, of New York, in the county and State of New York, have invented a new and improved Composition for Concrete Pavement; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention consists in a composition of pine-tar, coal-tar, broken stone, cinders or coarse gravel, coal-ashes, and sharp sand, with the addition of water-cement, asphaltum, sulphur, rosin, calcined plaster or lime, either or all, as the season, climate, state of the soil, location, or other circumstances may seem to demand.

To enable others skilled in the art to make and use my invention, I will proceed to describe the same.

I take of broken stone, coarse gravel, or iron cinders, either or all, seventy per cent.; coal-ashes, twenty-five per cent. Mix them well and run them over a screen with a one-inch mesh.

The coarse part is then mixed with about equal parts of pine and coal-tar, (hot or cold,) until every part is well smeared with tar, and then it is laid down two to four inches thick, and well rolled with a heavy roller.

The fine part is also mixed with the pine and coal-tar, so as to make it plastic, and then spread over the first coat one-half to two inches thick, covered over

with plenty of sharp sand, and thoroughly rolled with heavy rollers.

I also take the material for the last coat, with or without the coal-tar, and add about five per cent. of water-cement or calcined plaster, and then put it into molds and heavily press it, so as to make blocks for pavement, which I lay down and cement with tar and sand, so as to make one solid surface or body.

The advantages of this kind of pavement consist in its durability and cheapness. It is water-tight and frost-proof, easy for man and beast to travel upon, pleasant to the eye, keeps an even surface, and grows harder by use. It is adapted for walks, street pavements, cellar-bottoms, vault-covers, floors for warehouses, cellars, and all similar purposes.

Having thus fully described my invention,

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

1. The mode, substantially as set forth, of compounding and preparing concrete blocks for paving.
2. The mode of laying pavements by the use of concrete blocks, embedded and united substantially as set forth.

RUSSELL FISK.

Witnesses:

J. WILLIAMS,  
E. W. RANNEY.