

UNITED STATES PATENT OFFICE.

CORNELIUS BURLEW, OF LOCK HAVEN, PA., ASSIGNOR TO HIMSELF AND
THORNTON SMITH, OF WASHINGTON, D. C.

IMPROVEMENT IN CONCRETE AND TILE PAVING.

Specification forming part of Letters Patent No. **68,284**, dated August 27, 1867.

To all whom it may concern:

Be it known that I, CORNELIUS BURLEW, of Lock Haven, in the county of Clinton, and State of Pennsylvania, have invented a new and useful Improvement in Paving-Blocks for Streets, Pavements, &c.; and I do hereby declare that the following is a full, clear, and exact description of the mode of compounding, preparing, and laying the same.

This invention consists in preparing, by a new process, concrete-blocks for paving streets, sidewalks, houses, &c., and in the mode of laying the same.

The following description will enable one skilled in the art to compound and use the same.

To form one hundred parts, take of

Gravel	35	parts.
Coal-ashes	10	"
Hard cinders	10	"
Sharp coarse sand	20	"
Water cement	02	"
Salt	02	"
Coal-tar	05	"
Iron filing	02	"
Pine-tar	05	"
Rosin	04	"
Glue	01	"
New lime	04	"

Total.....100

To compound these ingredients, I mix the gravel, cinders, coal-ashes, sand, iron filings,

salt, and lime, thoroughly together. Then heat the tar and dissolve the rosin and glue therein, and thoroughly incorporate the mixture with the above ingredients. The cement should then be thoroughly mixed through the concrete, and the material then put into molds of proper sizes to form the blocks, and subjected to a heavy pressure. This work may be done in any good brick-pressing or analogous machine.

The concrete blocks may be colored to any desired shade by adding suitable and ordinary colors, such as are used in making paints.

The blocks are laid upon the ground, or upon a prepared bed of mortar, or stone, or concrete. Hot tar, mixed with sharp sand and cement, is then to be poured into the cracks, and a heavy roller used to level the surface.

What I claim as my invention, 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.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CORNELIUS BURLEW.

Witnesses:

THORNTON SMITH,
D. P. HOLLOWAY.