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UNITED STATES PATENT OFFICE.

PRESTON M. BRUNER, OF ST. LOUIS, MISSOURI.

CONCRETE PAVEMENT AND FLOOR.

SPECIFICATION forming part of Letters Patent No. 401,539, dated April 16, 1889.

Application filed November 24, 1888. Serial No. 291,773. (No specimens.)

To all whom it may concern:

Be it known that I, PRESTON M. BRUNER, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Concrete Pavements and Floors, of which the following is a full, clear, and exact description.

My invention relates to a facing or temporary wearing-surface of a concrete pavement or floor; and my invention consists in features of novelty disclosed by the claim.

In the construction of concrete pavements or sidewalks and floors put in place in a plastic condition it often becomes difficult to protect the work while it is becoming solidified or hardened. The usual way is to fence off or throw scaffolding over it until hard enough to bear the weight and wear of travel. This is a great inconvenience and annoyance where there is much travel. In order to overcome this difficulty and to accomplish other desirable ends I propose to place on the finished surface some quick-setting cement of any suitable kind. This will harden in a few minutes and bear the weight and wear of traffic for a few days; afterward it will wear off or may be peeled off, for at the end of that time the concrete of which the pavement or floor is formed will have become sufficiently hardened.

The material that I prefer to use for its quick-setting properties is plaster-of-paris; but any other quick-setting material or mix-

ture may be used. The method of putting it on should be such that the material will not mix in with and combine with the pavement or floor, but only adhere and sufficiently to hold or remain in its place for the required time and then leave the pavement in a smooth and undisfigured condition. My preferred manner of applying it is to sprinkle it over the surface in a powdered condition or to make a very thin paste of it and spread it upon the surface. When sprinkled on in a powdered condition, it takes up moisture from the fresh pavement and immediately hardens.

I do not lay claim to the use of a quick-setting cement where the same is put on as an integral part of the pavement, but I produce the pavement with the usual finish and in the usual manner and then put this coating on, so that when it peels off the pavement is in the same condition as if it had been left to harden by the old method now in use.

I claim as my invention—

A concrete pavement, &c., having a temporary facing composed of some quick-setting material that may be removed from the pavement after the latter has become hardened.

In witness whereof I have hereunto set my hand this 21st day of November, 1888.

PRESTON M. BRUNER.

In presence of—

SAML. KNIGHT,
EDW. S. KNIGHT.