

UNITED STATES PATENT OFFICE.

GEORGE W. M. BOOKWALTER, OF WINCHESTER, OHIO.

IMPROVEMENT IN COMPOSITIONS FOR SLATES, &c.

Specification forming part of Letters Patent No. **148,170**, dated March 3, 1874; application filed November 6, 1873.

To all whom it may concern:

Be it known that I, GEORGE W. M. BOOKWALTER, of Winchester, in the county of Preble and State of Ohio, have invented certain new and useful Improvements in Liquid Slating for Blackboards, Bulletin-Boards, &c.; and do hereby declare that the following is a full, clear, and exact description thereof.

My invention consists in the composition for slate, consisting of the ingredients hereinafter mentioned, for the purposes set forth; and to enable others skilled in the art to avail themselves of the benefits of it, I will now proceed to describe it.

I take two (2) parts leveling-varnish to four (4) parts spirits turpentine; three (3) parts pumice-stone; English filling, one (1) part; lamp or bone black, two (2) parts; manganese, (or black oxide,) in the proportion of six (6) ounces to every gallon; and a sufficient quantity of Prussian blue to impart to the mixture a slate color or hue—as a general rule, four (4) ounces per gallon. I then place the aforesaid ingredients in an ordinary paint-mill, and grind them as paint is ground. The compound is then ready to be applied to the wall or other surface with a flat camel or sable hair brush.

The compound can be used of such consist-

ency as to be applied either with a brush or trowel. The surface will be very hard and durable, not liable to be affected by the weather, water, or grease, making it peculiarly adapted to bulletin-boards and blackboards for school-rooms, from the fact that the figures or writing can be seen at any angle.

I would here remark that "English filling" is a powder manufactured in England, well known to the trade, and is used by coach-makers for the purpose of filling up or getting a smooth surface on the bodies of carriages.

Having thus fully set forth the nature of my invention, its mode of preparation, and application, what I claim, and desire to secure by Letters Patent, is—

The composition for slates of the within-named ingredients, in about the proportions named, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEORGE W. M. BOOKWALTER.

Witnesses:

JAMES RUSSELL,
C. C. FETHERLING.