COATING OR PLASTIC.

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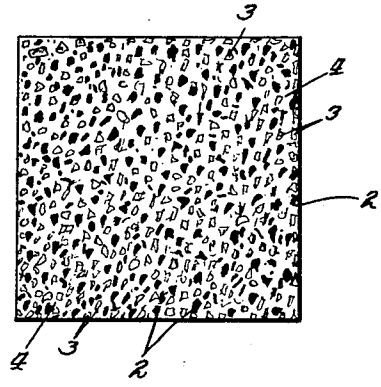
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ARTIFICIAL STONE.

APPLICATION FILED NOV. 15, 1916.

1,300,591. Patented Apr. 15, 1919.



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UNITED STATES PATENT OFFICE.

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ARTIFICIAL STONE.

1,300,591. Specification of Letters Patent. Patented Apr. 15, 1919.

Application filed November 15, 1916. Serial No. 131,573.

To all whom it may concern:

Be it known that I, MICHAEL EBINGER, a citizen of the United States, residing at Oakland, in the county of Alameda and State of California, have invented certain new and useful Improvements in Artificial Stone, of which the following is a specification.

The invention relates to improvements in artificial stone and more particularly to a product of this character specially adapted for the drain boards of sinks, for the floors of bath rooms and showers, and in general for places where an impervious, hard, elegant looking material is desirable.

The principal object of my invention is to produce an artificial stone which is non-porous and is therefore adapted for use in places where it will be exposed to water.

Another object of the invention is to produce a stone which can be laid in the plastic state and which will be hard and strong, when set, without being brittle. Still further objects of the invention are to produce an artificial stone which is pleasing in appearance and which is capable of taking a high finish.

With these and other objects in view the invention consists in the novel combination of materials herein described and more specifically pointed out in the appended claims.

Reference being had to the drawing forming a part of this specification, the figure is a view in plan of a piece of stone constructed in accordance with my invention.

Referring to the various parts on the drawing by numerals of reference, the improved stone consists of pieces of crushed granite denoted by 2, and pieces of crushed quartz denoted by 3. The pieces 2 are here shown black in color and I find this color gives a pleasing effect when used with pieces 3 of clear or milky quartz, the amount of each being substantially the same. While I have shown half of the particles black and the other half clear, it will be understood that the principal object is to have them of contrasting colors. All the particles are crushed to a fineness that will pass through a screen having a mesh of about eight to the inch.

The cementitious material is Portland cement, either the ordinary gray variety or one which gives a substantially white color when set. I prefer however to use the latter as when used without coloring matter a more pleasing tone is secured. Coloring matter is added to give the desired neutral tone to the ground in which the particles are embedded.

In addition I add a water-proofing and the material which I find best for this purpose is stearate of lime, used in the proportion of one to three parts to the hundred parts of cement. This water-proofing in a powdered form is thoroughly incorporated in the cement before the latter is mixed with the rest of the ingredients.

Cement is used in the proportion of one part to three or four parts aggregates, the cement, water-proofing and coloring matter being first mixed in the dry state are then added to the aggregates and the whole moistened to the proper degree. This plastic mass is applied to the surface and carefully trowled into a compact mass. After it has set the surface is finished by rubbing with a coarse abrasive such as carborundum until a smooth glossy surface is produced.

The granite used is mostly black quartz and transparent feldspar, while the quartz is of the milky or transparent variety. Thus the aggregates when rubbed down show a mottled effect, and take a high polish.

Thus by my improved artificial stone, I obtain a surface which is impervious to water, which is pleasing in tone, and which is capable of taking a high polish. While I have described the preferred embodiment of my invention, it will be understood that changes may be made in proportions of the ingredients without departing from the scope of the claims.

I claim as new and wish to cover by Letters Patent:

1. An artificial stone comprising crushed crystals of two contrasting shades in substantially equal parts, a light colored cementitious compound, and stearate of lime.

2. An artificial stone comprising finely crushed crystals of two contrasting colors in substantially equal parts, a light colored Portland cement, a coloring compound, and stearate of lime.

In testimony whereof I affix my signature.

MICHAEL EBINGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."