



# UNITED STATES PATENT OFFICE.

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## TILE.

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This invention relates to ceramic tiles, and has for its object to provide, in a manner as hereinafter set forth, a tile unit of the nosing type constructed in a manner to form the nosing for and a continuation of a step or tread surface, to enclose the protruded portion at the top of a riser of a stairway and form the nosing for a step, to provide a railing piece for sinks, scum gutters, drain boards, etc., and to further provide inside and outside corners for tile formations as particularized.

A further object of the invention is to provide, in a manner as hereinafter set forth, a nosing tile having inherent means to form a thread surface possessing a non-slipping characteristic.

A further object of the invention is to provide, in a manner as hereinafter set forth, a nosing tile having inherent means for anchoring it to a riser.

A further object of the invention is to provide, in a manner as hereinafter set forth, a ceramic tile shaped in a manner to form a flush continuation at the outer or inner end of the transverse or longitudinal courses or rows of tiles of a tile structure to further form a nosing or corner at the outer or inner end of the courses.

Further objects of the invention are to provide, in a manner as hereinafter set forth, a nosing tile unit which is simple in its construction and arrangement, strong, durable, pleasing and distinctive in appearance, thoroughly efficient in its use, readily anchored in position at the outer end of the tread portion of a step, having inherent means to provide a non-slipping tread, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, as hereinafter more specifically described, and illustrated in the accompanying drawings wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which fall within the scope of the claims hereunto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a fragmentary view, in perspective, of a stairway having the steps thereof provided with a tread formed of courses or rows of tiles and a nosing formed from tile units in accordance with this invention.

Figure 2 is a perspective view, looking to the rear, of a step nosing tile unit, in accordance with this invention.

Referring to the drawings in detail 1 denotes a stairway constructed from concrete or other suitable material and formed with risers 2, steps 3 and a protruded portion 4 at the upper part of each riser 2. Each of the steps 3 has the tread thereof constructed of rows or courses of tile units 5 and the forward end of each course or row of tile units has associated therewith a nosing tile referred to generally by the reference character 6 and which is anchored to and encloses a protruded portion 4 of a riser 2. The nosing tile unit has the upper part thereof seated on the step 3 and said part forms a continuation of a course or row of tile units 3 and also provide a part of the tread for the step.

The nosing tile unit 6 consists of a polygonal-shaped tread forming portion 7 formed at the top of the unit and a nosing forming portion 8 which depends from the forward end of the portion 7 and curvilinear in vertical section with respect to both faces thereof, and it is to be understood that the unit can be set up of any suitable contour in vertical section, but the nosing forming portion 8 should conform in contour to the protruded portion 4 at the top of the riser 2. The upper end of the unit 6 is squared, as indicated at 9, and the lower end thereof squared as indicated at 10. The squared upper end 9 of the unit opposes the outer tile or tile unit of a course or row of tiles of the tread of a step and is flush therewith. The lower end 10 of the unit 6 abuts against the riser 2, see Figure 1. The tread surface 11 of the unit 6 possesses a non-slipping characteristic provided for by constructing the unit of what may be termed of a rough texture and which by way of example can be provided by carborundum mixed with the material from which the unit is formed. It is to be understood however that the rough texture of the unit can be provided in any suitable manner. The inner face of the nosing forming portion 8 of the unit 6 is formed with transversely extending dove-tailed grooves 12 providing transversely extending tongues 13. The tongues 13 are embedded in the material from which the stairway 1 is constructed and such material enters the grooves 12 whereby the unit 6 is anchored in position to the stairway. The unit 6 provides what may be termed a safety step nosing tile unit as it

possesses an inherent non-slipping tread surface and further acts as a means to protect the protruded portion 4 of the riser 2.

It is thought the many advantages of a nosing tile or tile unit, in accordance with this invention, can be readily understood, and although the preferred embodiment of the invention is as illustrated and described, yet it is to be understood that changes in the details of construction can be had which will fall within the scope of the invention as claimed.

What I claim is:—

1. A ceramic nosing tile unit for the outer end of a course or courses of ceramic tile units comprising a rigid body portion open at each side and at its rear and formed of ceramic material, said body portion consisting of a rearwardly extending, horizontally disposed flat upper part and a forwardly and rearwardly directed outer part depending from the forward end of said upper part, said outer part having the free end edge thereof positioned below the upper part and substantially in alignment with the point of mergence of the upper part with the lower part, said body portion of uniform thickness throughout and having the end edges thereof squared throughout, the inner face of said outer part having projecting rearwardly therefrom transversely extending, spaced dove-tailed tongues corresponding in length to the width of said outer part, one of said tongues spaced from the upper part and another of said tongues spaced from the free end edge of said outer part.

2. A ceramic tile unit for the outer end of a course or courses of ceramic tile units comprising a rigid body portion formed solely of ceramic material having combined there-

with throughout thereof spaced particles of a material possessing a non-slipping characteristic to provide the outer face of said body portion throughout with a non-slipping characteristic, said body portion consisting of a rearwardly extending, horizontally disposed flat upper part and a forwardly and rearwardly directed outer part depending from the forward end of said upper part, the free end edge of said outer part positioned below the upper part and substantially in alignment with the point of mergence of the upper part with the outer part, said body portion being of uniform thickness throughout and having the free end edges thereof squared throughout, and said outer part having projecting rearwardly from its inner face spaced, transversely extending tongues.

3. A ceramic tile unit for the outer end of a course or courses of ceramic tile units comprising a rigid body portion formed solely of ceramic material having combined therewith throughout thereof spaced particles of carborundum to provide the outer face of said body portion throughout with a non-slipping characteristic, said body portion consisting of a rearwardly extending, horizontally disposed flat upper part and a forwardly and rearwardly directed outer part depending from the forward end of said upper part and of arcuate contour in vertical section, said body portion of uniform thickness throughout and having the free end edges thereof squared, and said outer part having projecting rearwardly from its inner face spaced, transversely extending tongues.

In testimony whereof, I affix my signature hereto.

P. C. C. FRIDERICHSEN.