March 31, 1925.

1,532,006

S. D. VAN WEGEN

MEANS FOR FINISHING PLASTIC MASSES

Filed Sept. 10, 1924

Fig. 1

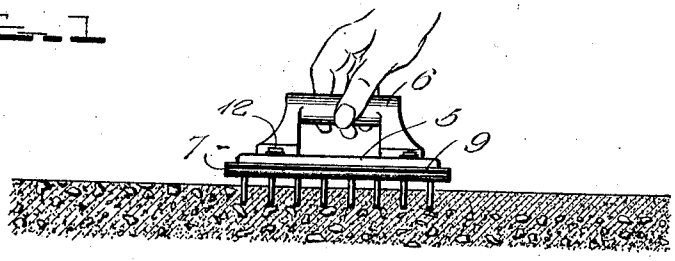


Fig. 2

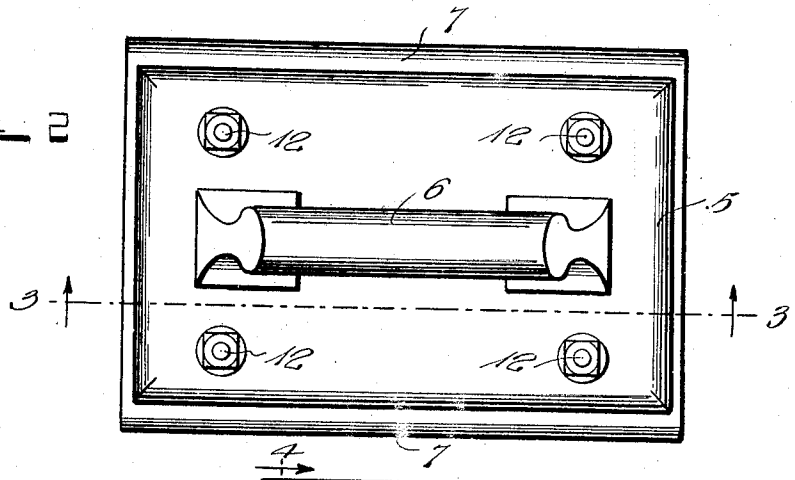


Fig. 3

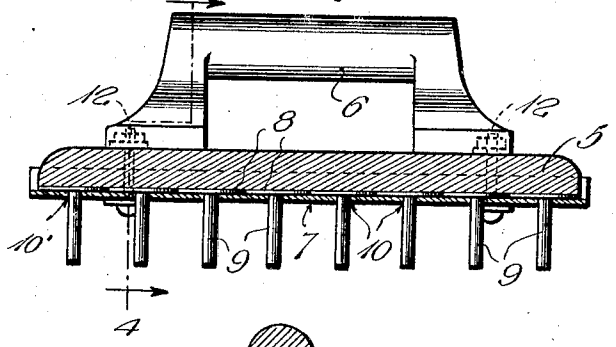
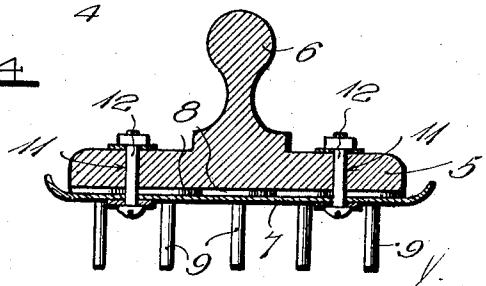


Fig. 4



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UNITED STATES PATENT OFFICE.

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MEANS FOR FINISHING PLASTIC MASSES.

Application filed September 10, 1924. Serial No. 737,007.

To all whom it may concern:

Be it known that I, SIDNEY D. VAN WEGEN, a citizen of the United States of America, and resident of Rockwell City, in the county of Calhoun and State of Iowa, have invented certain new and useful Improvements in Means for Finishing Plastic Masses, of which the following is a specification.

This invention relates to methods of and means for finishing plastic masses.

The invention includes a tool for use in working concrete when laid to produce floors, sidewalks, or the like; and the said invention is intended to be employed for finishing a surface of the mass of material laid to produce the floor, sidewalk, or the like, as it is effective to force coarser particles of the mixture below the surface and to a certain extent imbed them predetermined distances below the surface in order that the surface when hardened will be smooth and free of gravel, stone, or the like.

It is the purpose of this invention to produce a tool of the character indicated which can be expeditiously manipulated for forcing the larger elements of a plastic composition below the surface of the mass when the same is laid to form a floor, sidewalk, or the like, the said tool being efficient and comparatively inexpensive.

With the foregoing and other objects in view, the invention consists in the details of construction, and in the arrangement and combination of parts to be hereinafter more fully set forth and claimed.

In describing the invention in detail, reference will be had to the accompanying drawings forming part of this application wherein like characters denote corresponding parts in the several views, and in which—

Figure 1 illustrates a view in elevation of the tool and the composition in section;

Figure 2 illustrates a top plan view of the tool;

Figure 3 illustrates a sectional view on the line 3—3 of Fig. 2; and

Figure 4 illustrates a sectional view of the tool on a line corresponding with the line 4—4 of Fig. 3.

In these drawings, a tool is illustrated as comprising a plurality of parts which is intended to disclose one embodiment of the invention. The tool may be made of wood, metal or the like, and the inventor does not wish to be limited with respect to the material nor the configuration of parts, except as they may be included in the annexed claim.

The body 5 of the tool has a handle 6 secured to it and the said body has a face plate 7 applied at its under surface, but held in spaced relation thereto by the heads 8 of the shanks or pins 9, which latter project through apertures 10 formed in the plate. The pins have blunt ends which serve to engage coarse elements or material in a mass of plastic composition for forcing the said elements downwardly in the mass.

The heads 8 are preferably flat and of a size to present rather larger areas to the under surface of the body 5 in order that there will be no appreciable tilting of the pins when the device is being operated, as will presently appear.

The plate has apertures such as 10′ and the body has apertures such as 11 for the reception of securing devices 12, here shown as in the nature of bolts which serve to retain the plate, pins and body in assembled relation to one another and preferably the plate is bound tightly against the heads of the pins in order that the said pins may be held rigid.

As shown in the drawing, the pins are spaced apart from one another, and it is the purpose of the inventor that the tool should be employed by pressing the tool toward the top surface of the mass of material intended to produce the floor, sidewalk, or the like, in order that the pins may be forced into the mass of material to engage the coarser particles of the mass so that the said coarser particles may be forced downwardly in the mass to leave the exposed surface of the floor or walk free of the coarse elements of the composition, exposing only the smooth concrete work.

By the use of an implement or tool of this character, sand or gravel will be employed

as a filler of the composition for the purpose of economizing in the cement and sand for the laying of plastic masses, without the coarse elements being exposed in the finished product.

I claim:

In a device for forcing coarse elements of a plastic composition downwardly in the mass, a body having a handle, an apertured plate secured to the body, pins having blunt ends extending through the apertures of the plate, and heads on the said pins interposed between the said plate and body, substantially as described.

SIDNEY D. VAN WEGEN.