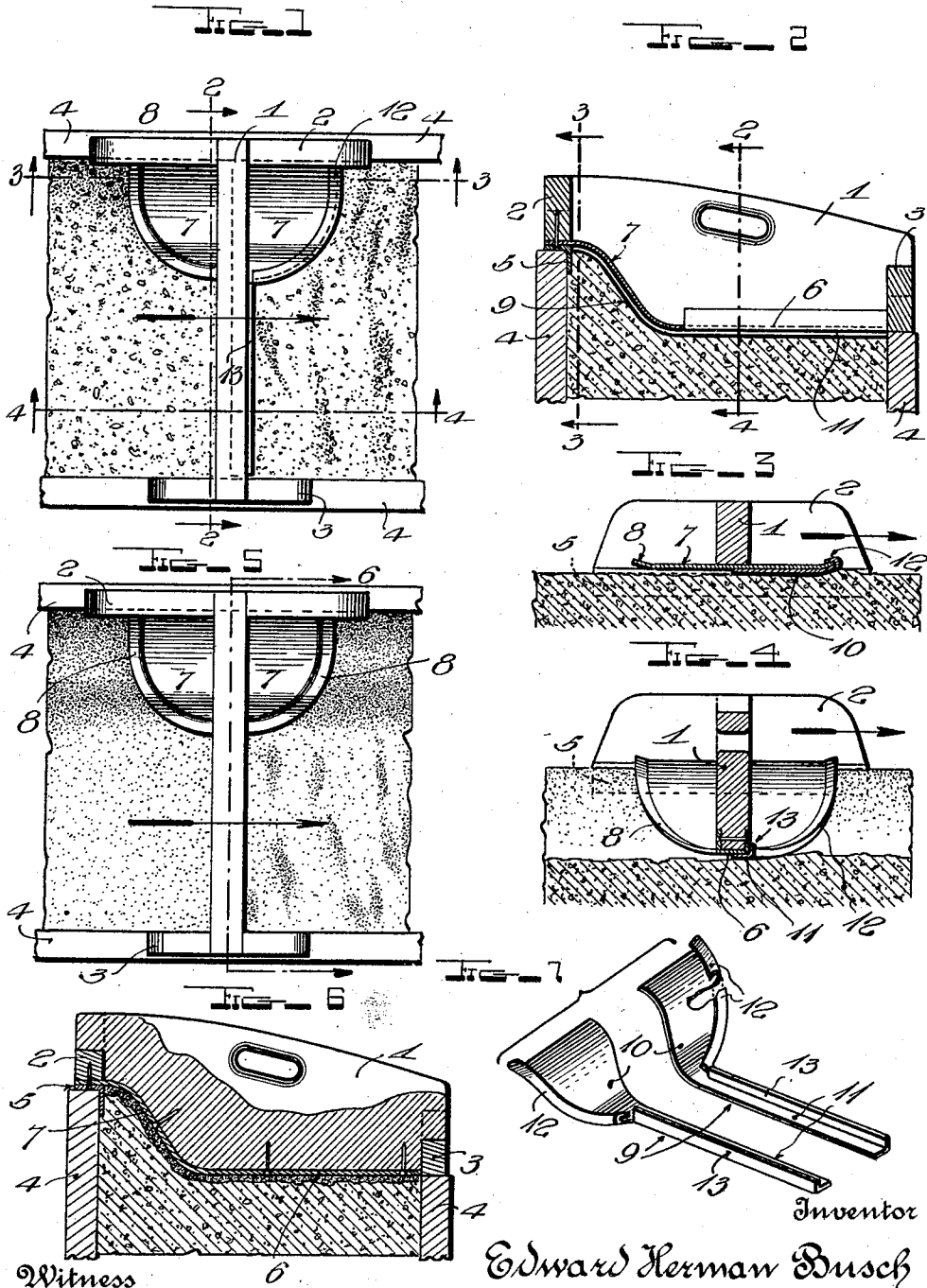


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E. H. BUSCH
CEMENT WORK FORMER

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Witness

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UNITED STATES PATENT OFFICE.

EDWARD HERMAN BUSCH, OF KENDALLVILLE, INDIANA.

CEMENT-WORK FORMER.

Application filed July 24, 1924. Serial No. 727,980.

To all whom it may concern:

Be it known that I, EDWARD HERMAN BUSCH, a citizen of the United States, residing at Kendallville, in the county of Noble and State of Indiana, have invented certain new and useful Improvements in Cement-Work Formers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in tools used in forming numerous kinds of surfaces upon cement work, the tool herein disclosed being designed for use in the construction of cement curbs and gutters. Tools of the type to which I refer are moved by hand along a pair of parallel cement forms and the cement is placed between such forms in front of the tool, so that the latter forms a surface of the desired configuration on the cement, as it is operated. Tools of this character have heretofore been provided only with one plate to engage the cement, both when "roughing" the job and after applying the finishing coat, but it is the object of my invention is to provide an improved tool in which a roughing plate is applicable to the lower side of a finishing plate, so that after said roughing plate has been used to form the cement into the desired outline, it may be removed and the finishing plate used to smooth the finishing coat of cement, applied to the work. Thus, a better job may be obtained and the finishing plate is relieved of a great deal of wear which would be caused if it were permitted to contact with the comparatively coarse cement mixture commonly used for the greater part of the structure before the finishing coat of smooth cement is applied.

With the foregoing in view, the invention resides in the novel subject matter herein-after described and claimed, the description being supplemented by the accompanying drawing.

Figure 1 is a top plan view showing the manner of using the device, one of the roughing plates being applied to the lower side of the finishing plate.

Figure 2 is a transverse sectional view on line 2—2 of Fig. 1.

Figures 3 and 4 are sectional views on lines 3—3 and 4—4 of Figs. 1 and 2.

Figure 5 is a plan view showing the tool in use for finishing the surface of the work.

Figure 6 is a sectional view on line 6—6 of Fig. 5.

Figure 7 is a perspective view of the finishing plates which are usable separately, according to the direction in which the tool is to be moved.

In the drawing above briefly described, the numeral 1 designates a forming bar having transverse shoes 2 and 3 at its ends adapted to slide along a pair of parallel forms 4, the bar 2 preferably having an angle metal guide 5, as shown most clearly in Fig. 2. A work-finishing plate 6 is secured to the lower edge of the bar 1, said plate having, in the present showing, a strip-like portion extending under the greater part of the bar's length, and a widened end 7 which projects laterally from opposite sides of the bar, said widened end having its edges curved upwardly as indicated at 8.

I have shown two roughing plates 9, either of which is applicable to the lower side of the finishing plate 6, each roughing plate having a widened end 10 to extend under half the width of the widened end 8 of the finishing plate, and being also formed with a strip-like portion 11 to extend under the narrow portion of the finishing plate. Means are provided to detachably secure either plate 9 in place, and in the present showing, such means comprises a hook-like flange 12 on the outer edge of the plate end 10 to engage the outer edge of the plate end 7, and an upstanding flange 13 on the strip-like portion 11 of the plate 9, to abut one edge of the strip-like portion of the finishing plate 6.

When roughly forming the cement into the required shape between the forms 4, one or the other of the plates 9 is used under the finishing plate 6, as shown in Figs. 1 to 4, one of said plates 9 being used for right-hand work while the other is employed for left-hand. After the cement has been formed into the desired shape, a finishing coat of cement is applied, the roughing plate 9 is removed, and the finishing plate 6 is employed to smooth the finishing coat.

Excellent results are obtainable from the details disclosed and they may therefore be followed if desired, but within the scope of the invention as claimed, numerous changes may be made and while a tool has been shown shaped to form cement curbs and gutters, it is obvious that it may have a configuration for producing other work.

I claim:

1. A cement work-forming tool comprising a forming bar adapted to slide along parallel form members, a finishing plate secured to the lower edge of said bar, a roughing plate applicable to the lower side of said finishing plate, and means for detachably securing said roughing plate in place.

2. A cement work-forming tool comprising a forming bar adapted to slide along parallel form members, a finishing plate secured to the lower edge of said bar and projecting laterally therefrom, and a roughing plate applicable to the lower side of said finishing plate, said roughing plate having a hook-like flange on one edge to removably receive the outer edge of the finishing plate.

3. A cement work-forming tool comprising a forming bar adapted to slide along parallel form members, a finishing plate se-

cured to the lower edge of said bar and having a widened end projecting laterally from the bar, a roughing plate applicable to the lower side of said finishing plate, said roughing plate having a wide end to underlie the wide end of the finishing plate and a strip-like portion to underlie the relatively narrow portion of said finishing plate, and means for detachably securing said roughing plate in place.

4. A structure as specified in claim 3, said securing means for the roughing plate comprising a hook-like flange on the widened end thereof to engage the wide end of the finishing plate, and a vertical flange on the strip-like portion of said roughing plate to abut an edge of the narrow portion of said finishing plate.

In testimony whereof I have hereunto affixed my signature.

EDWARD HERMAN BUSCH.