

W. WILLIAMSON & W. H. GREASER.

PLASTERERS' TROWELS.

No. 182,505.

Patented Sept. 19, 1876.

Fig. 1.

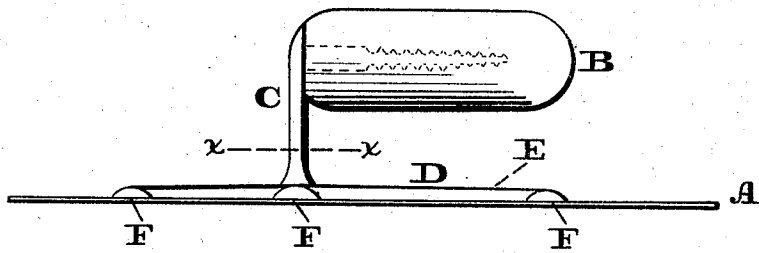


Fig. 2.

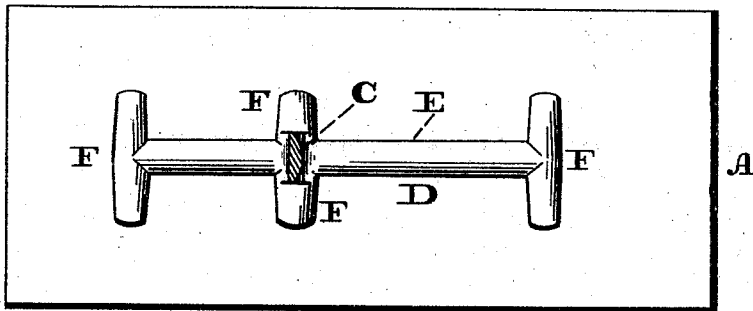


Fig. 3.

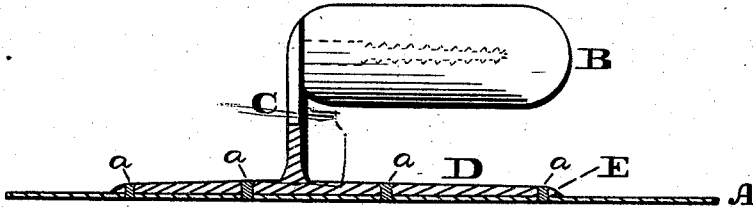
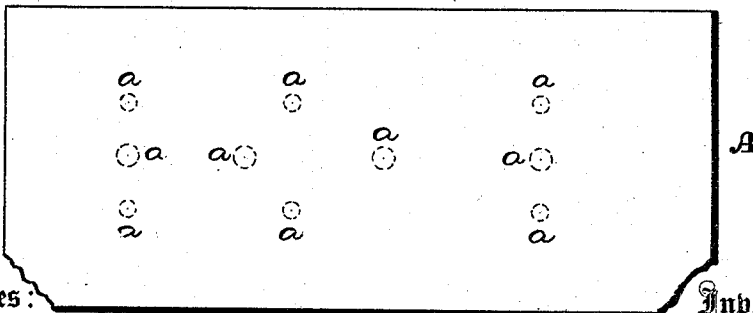


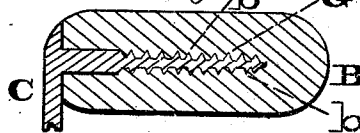
Fig. 4.



Witnesses:

Lewis F. Brown,
A. P. Grant.

Fig. 5.



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Wallace Williamson,
William Greaser,
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UNITED STATES PATENT OFFICE.

WALLACE WILLIAMSON AND WILLIAM H. GREASER, OF PHILADELPHIA,
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IMPROVEMENT IN PLASTERERS' TROWELS.

Specification forming part of Letters Patent No. **182,505**, dated September 19, 1876; application filed August 17, 1876.

To all whom it may concern:

Be it known that we, WALLACE WILLIAMSON and WILLIAM H. GREASER, both of the city and county of Philadelphia and State of Pennsylvania, have invented a new and useful Improvement in Plasterers' Trowels; and we do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which our invention appertains to fully understand, make, and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a side elevation of the trowel embodying our invention. Fig. 2 is a top or plan view, partly sectional, in the line *x x*, Fig. 1. Fig. 3 is a central longitudinal section. Fig. 4 is a bottom view. Fig. 5 is a central longitudinal section of the tang of the shank and the handle.

Similar letters of reference indicate corresponding parts in the several figures.

Our invention consists of a transverse and longitudinal re-enforce for the blade of a trowel, whereby said blade will be stiffened and braced at its weak points, and cracking thereof is avoided.

Referring to the drawings, A represents the blade of a plasterer's trowel, B the handle, and C the shank. With the shank C there is formed a re-enforce, D, which consists of a longitudinal bar, E, with lateral bars F, and said re-enforce is riveted to the back of the blade A, the rivets *a* passing through the end of the bars E F and the blade A.

It will be seen that the blade is stiffened and braced in the longitudinal and transverse directions thereof by the angular re-enforce, and the weak-spots or points which are at the sides of the center of the blade, both in the length and breadth thereof, are greatly strengthened, and prevented from cracking and breaking. G represents the tang, to which the handle B is attached, and it is screw-threaded, as at *b*, so that the handle may be readily, quickly, and firmly connected thereto.

By this construction the handle will be prevented wearing and rolling, heading of the tang is obviated, and liability of splitting the handle overcome; and should the handle loosen, the plasterer need only rotate said handle in order to tighten it on the tang.

We are aware that it is not new to apply a longitudinally-extending rib to the back of the blade of a trowel; but we are not aware that the lateral extensions or bars have been connected to the rib in order to strengthen the blade at points between the sides of the rib and the sides of the blade, as in our case.

We therefore claim as an improvement in the art and as our invention—

The combination, with the trowel-blade A, of a re-enforce, D, consisting of the longitudinal bar E and transverse bars F, substantially as and for the purpose set forth.

WALLACE WILLIAMSON.
W. H. GREASER.

Witnesses:

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JAS. WILLIAMSON.