(No Model.)

C. DISSTON.

PLASTERER'S TROWEL.

No. 440,423. Patented Nov. 11, 1890.

FIG. 1.

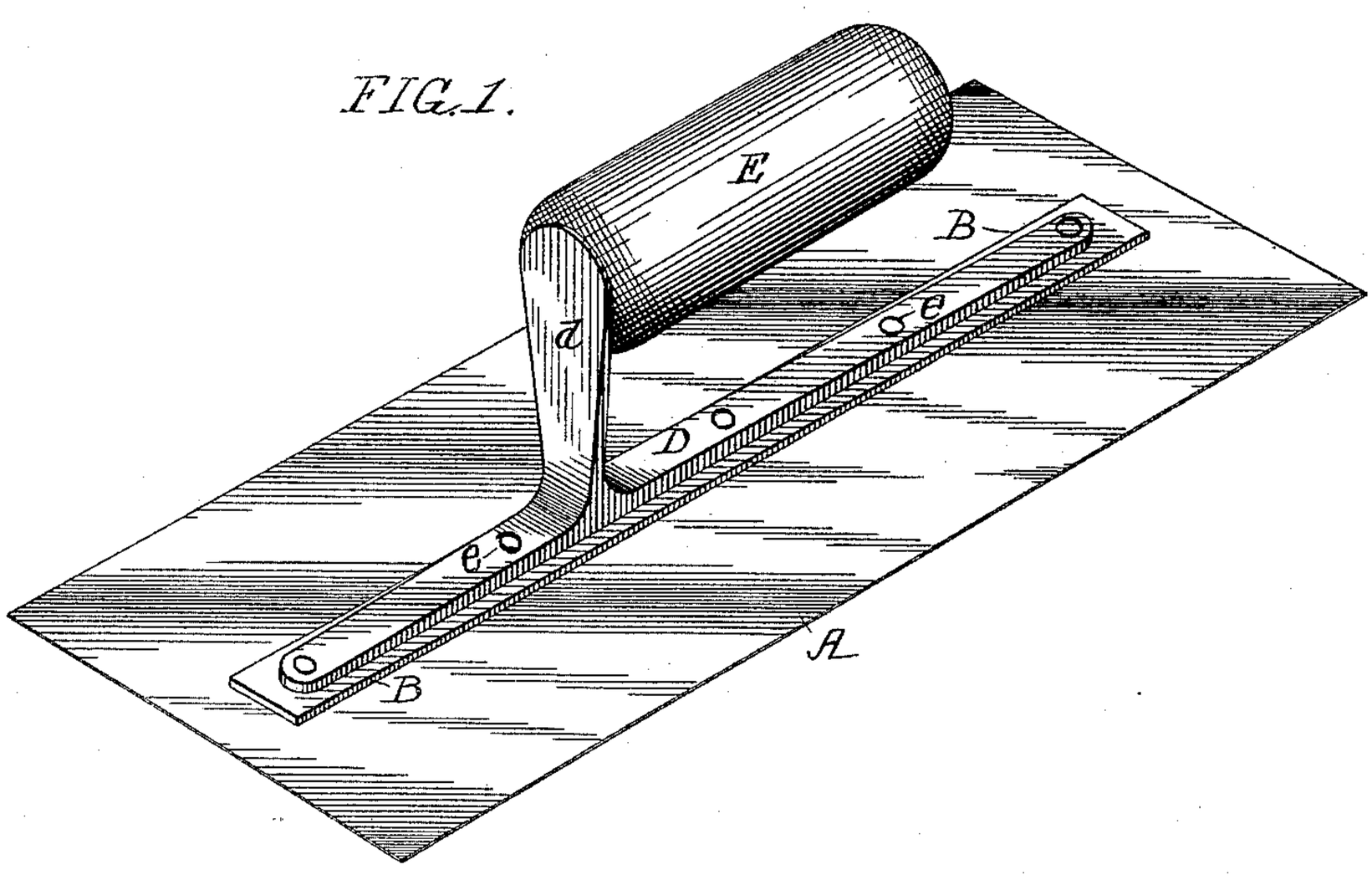


FIG. 2.

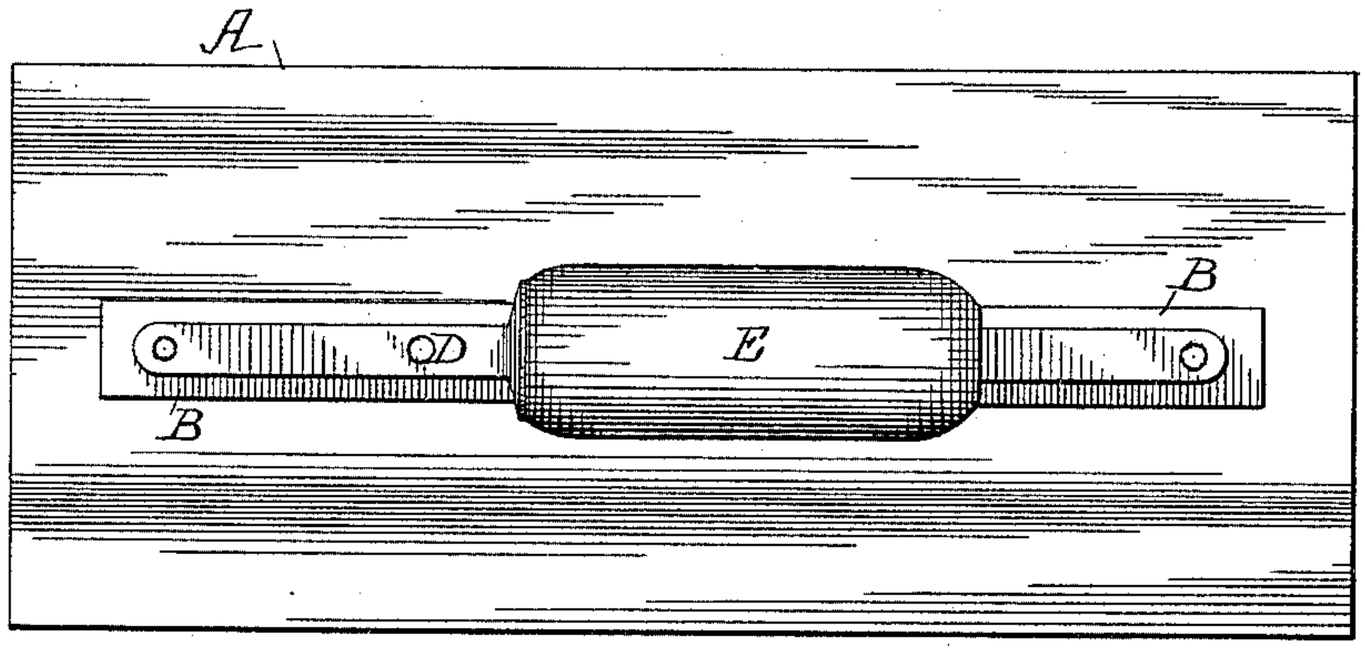
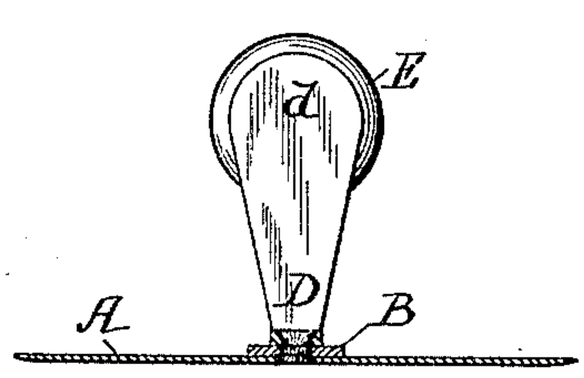


FIG. 3.



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UNITED STATES PATENT OFFICE.

CHARLES DISSTON, OF PHILADELPHIA, PENNSYLVANIA.

PLASTERER'S TROWEL.

SPECIFICATION forming part of Letters Patent No. 440,423, dated November 11, 1890.

Application filed July 21, 1890. Serial No. 359,378. (No model.)

To all whom it may concern:

Be it known that I, CHARLES DISSTON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Plasterers' Trowels, of which the following is a specification.

The object of my invention is to cheaply construct a plasterer's trowel, so that it will be light, and at the same time perfectly rigid when in use.

In the accompanying drawings, Figure 1 is a perspective view of my improved trowel. Fig. 2 is a plan view, and Fig. 3 is an end view.

In the manufacture of trowels for use by plasterers the blade of the trowel must be stiff enough to withstand the pressure applied to it in placing the mortar upon the walls. This necessitated, in the ordinary trowel, a very thick blade, and consequently it was correspondingly heavy and awkward to handle.

On April 20, 1875, a patent was granted to me, No. 162,355, for a trowel having a blade strengthened at the center. This accomplished the result aimed at—that is, a stiff and light trowel—but the cost of manufacture was so great that its sale was limited, as the blade was cut from a thick sheet and ground down, as shown in said patent, and was a delicate and costly article to make. I overcome the difficulties in the following manner:

Referring to the drawings, A is the blade of a trowel, made of thin sheet-steel, being of one thickness throughout, which enables the maker to readily cut the blank from a sheet of the proper thickness. Firmly secured to the back of this blade A is an independent strip of hardened steel B, acting as a backbone for the blade, preventing the blade yielding under pressure, the two combined being much lighter than the usual flat steel blade. To this strip B is secured the handle-iron D, made in the peculiar form shown, being of soft iron bent to form or of cast-iron, and made malleable. The handle-iron has an extension *d*, to which is adapted the usual handle E. The independent steel strip and handle-iron are secured together and to the blade in the present instance by rivets *e*. The handle-iron D cannot take the place of the strip B, as if it is once bent by pressure it would tend to remain in the position to which it was bent and be useless as a smoothing-trowel.

I claim as my invention—

In a plasterer's trowel, the combination of the thin flat blade A, the independent strengthening-strip B, with a handle-iron, rivets securing the handle and strip to the blade, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES DISSTON.

Witnesses:
H. F. REARDON,
HENRY HOWSON.