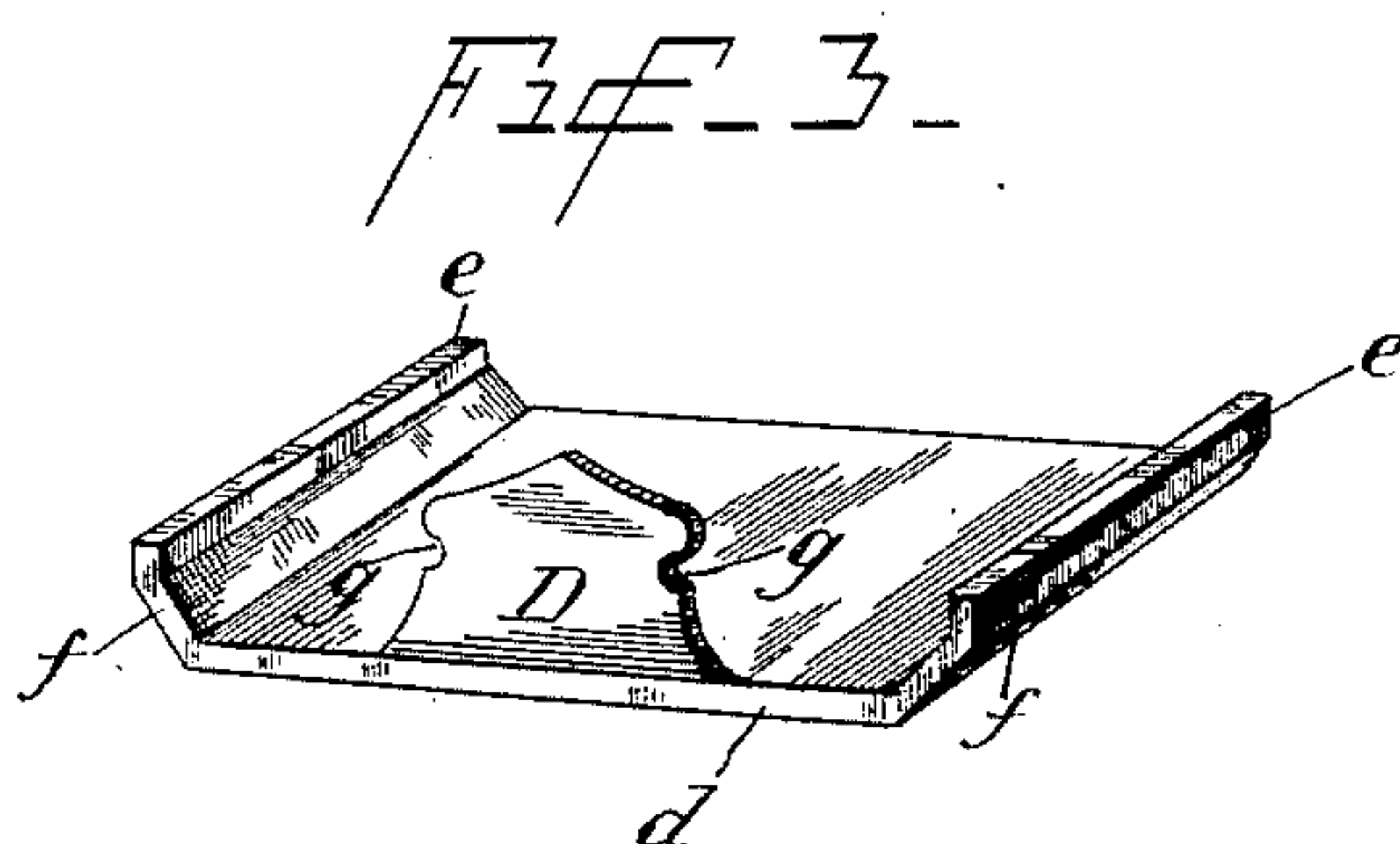
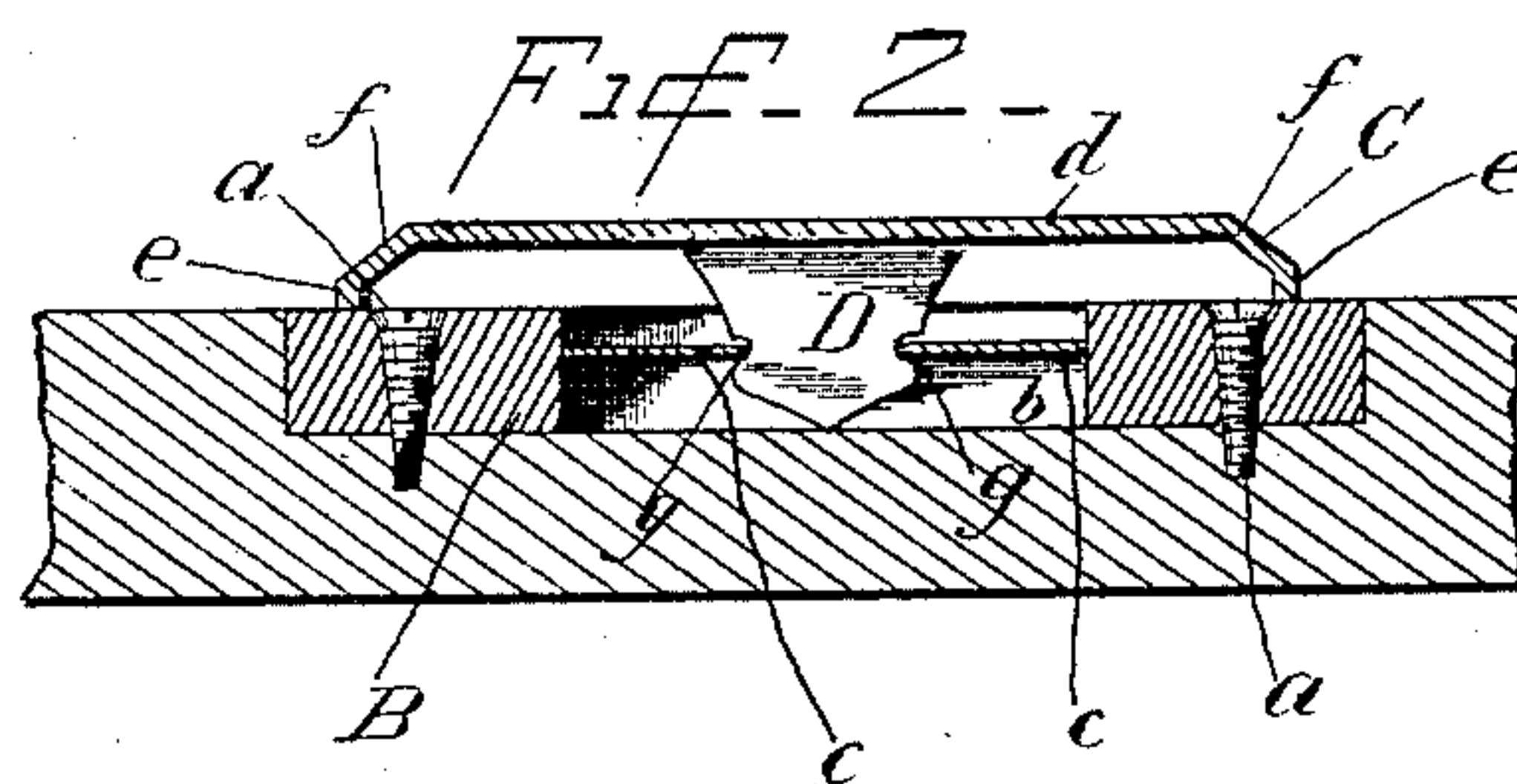
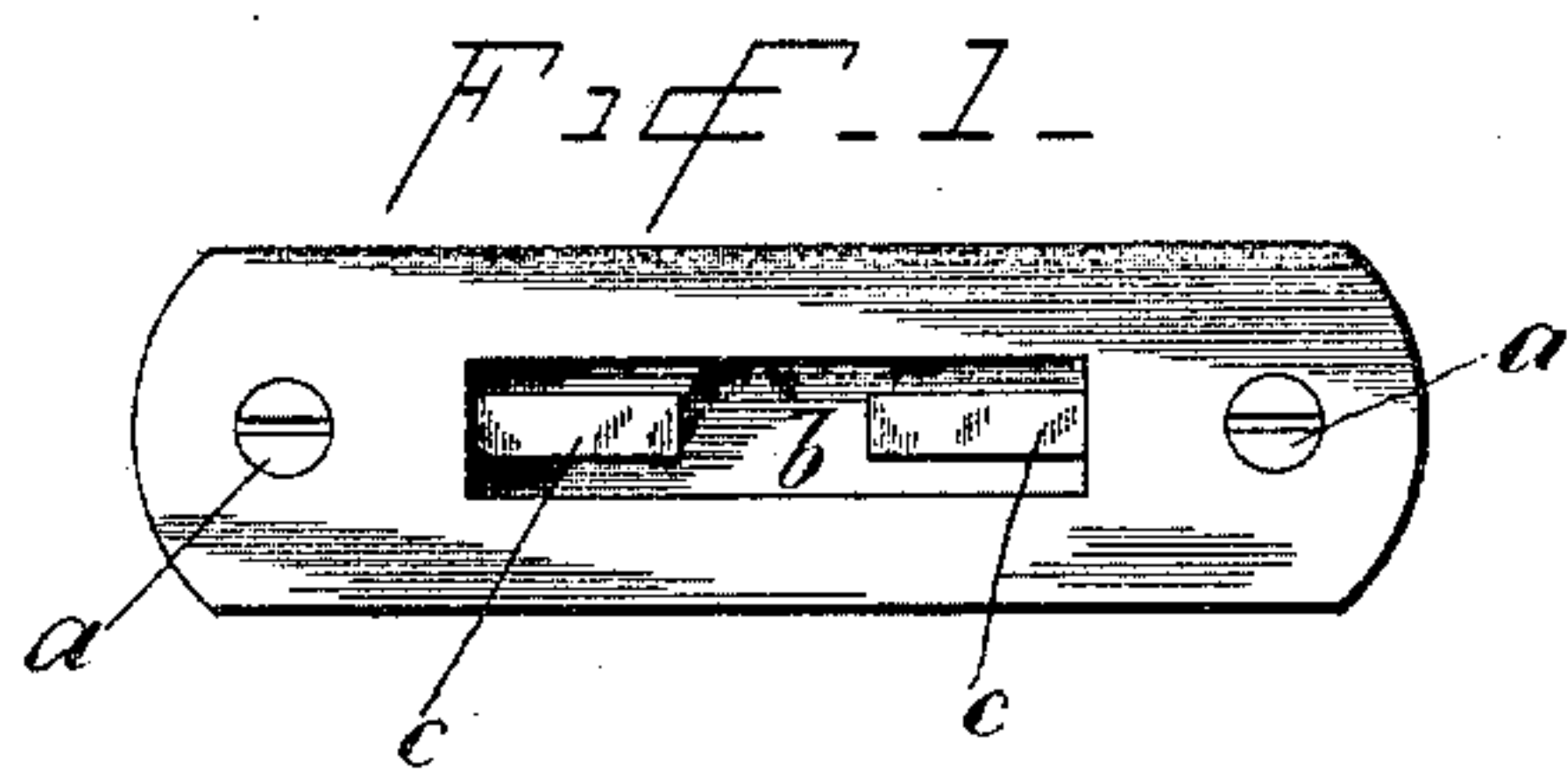


(No Model.)

C. J. PFRANGLE.
REMOVABLE LETTER.

No. 433,211.

Patented July 29, 1890.



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UNITED STATES PATENT OFFICE.

CHARLES J. PFRANGLE, OF AURORA, ILLINOIS.

REMOVABLE LETTER.

SPECIFICATION forming part of Letters Patent No. 433,211, dated July 29, 1890.

Application filed March 17, 1890. Serial No. 344,086. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. PFRANGLE, a citizen of the United States, residing at Aurora, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Removable Lettering; and I do hereby declare the following to be a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a new article of manufacture consisting of a metallic letter, figure, or symbol adapted to be removably attached to a sign-board, whereby any combination of letters may be obtained, so that a sign-board may be readily set up with any desired name in removable characters.

The invention relates also to the means whereby these letters, figures, or characters may be secured on the sign-board, all as will be more fully hereinafter described and claimed.

For a better comprehension of my invention attention is invited to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a top elevation of the socket and springs for retaining the character in place; Fig. 2, a sectional view of the same, showing the figure in place therein; and Fig. 3, a perspective view of the rear of one of the characters.

In all of the above views corresponding parts are designated by the same letters of reference.

All of the figures or letters are adapted to be removably secured to an ordinary sign-board A to form the desired sign, and each character is designed to be held in position thereon by means of the mechanism illustrated in Figs. 1 and 2. This consists of a metallic socket-plate B, countersunk in the board A and held in place therein by means of the screws *a a*. This plate B is provided with a rectangular

socket *b* therein, cut entirely through the same. Extending in from each side of this socket *b* is a metallic leaf-spring *c*, made preferably of spring-steel. These springs may be held in position by being soldered to the plate B, or else they may be firmly clamped between the plate and the sign-board A.

Each letter, figure, or symbol C is made, preferably, of cast metal, with a flat face *d*, the short vertical sides *e e*, and the beveled edges *f f*.

The desired letter, figure, or symbol may be painted, gilded, or otherwise applied to the flat outer side *d*, so as to appear a decided contrast. Each of these characters is provided on its back with an integral lug D, of the form shown in Fig. 3, and provided with a small notch *g* on each side.

When the characters are to be applied to the sign-board, the lug D is inserted in the socket *d*, so that the springs *c c* will engage with the small notches *g g* on the said lug, and in this way the character will be held firmly in place. In this way it will be evident that any desired name may be formed on the sign-board in any desired style of letters, and the letters may be readily removed when it is desired to clean them or to change the sign.

It will be understood, instead of making the letters of cast metal, that they may be made of sheet metal or of any other suitable material.

Having now described my invention, what I desire to claim and secure by Letters Patent is as follows:

The combination of a socket-plate B, a pair of leaf-springs *c c*, engaging on said socket-plate, a removable metallic character C, and a lug D thereon engaging with said springs *c*, substantially as set forth.

CHAS. J. PFRANGLE.

In presence of—

W. B. MILLER,

H. W. FULLER.