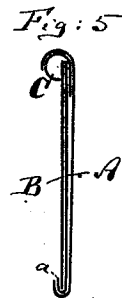
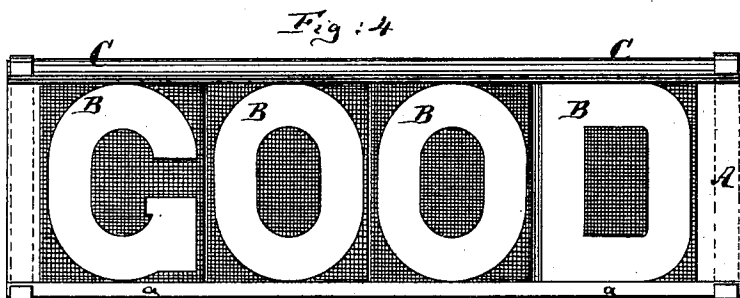
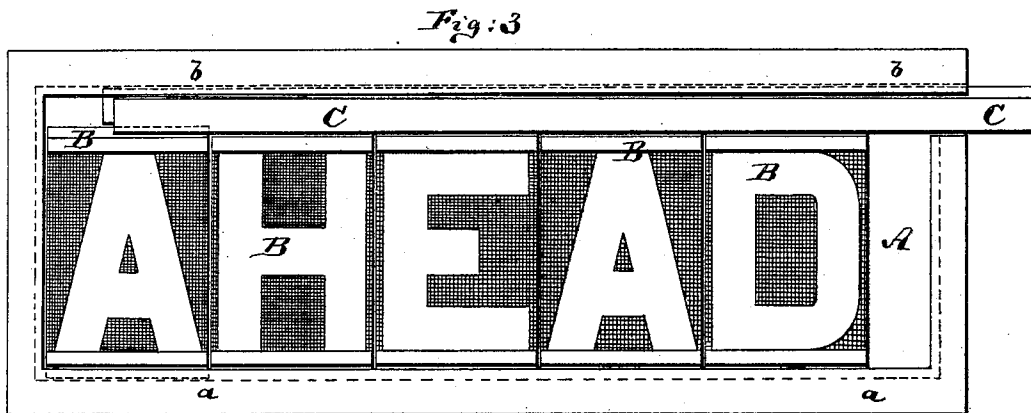
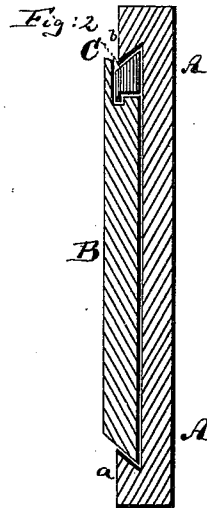
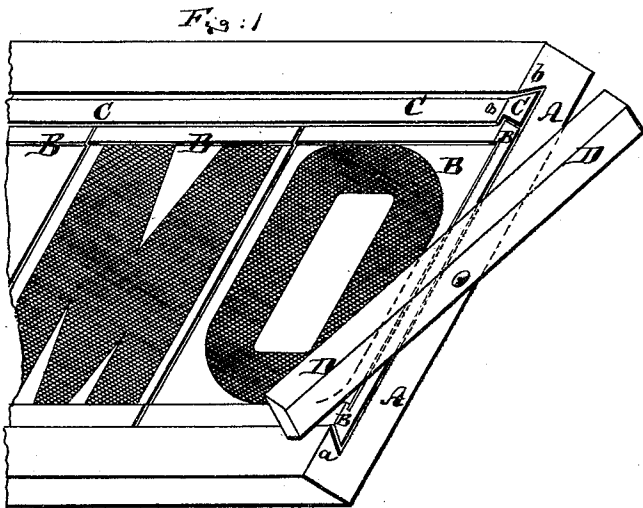


J. A. CRANDALL & DeW. C. TAYLOR.

BULLETIN BOARDS.

No. 177,202.

Patented May 9, 1876.



Witnesses:
A. Moraga.
Ernest C. Webb

Inventors
Jesse A. Crandall
De Witt C. Taylor
by their attorney
A. B. Briesen

UNITED STATES PATENT OFFICE.

JESSE A. CRANDALL AND DE WITT C. TAYLOR, OF BROOKLYN, NEW YORK;
SAID CRANDALL ASSIGNOR TO SAID TAYLOR.

IMPROVEMENT IN BULLETIN-BOARDS.

Specification forming part of Letters Patent No. **177,202**, dated May 9, 1876; application filed March 30, 1876.

To all whom it may concern:

Be it known that we, JESSE A. CRANDALL and DE WITT C. TAYLOR, both of Brooklyn, Kings county, New York, have invented a new and Improved Bulletin-Board, of which the following is a specification:

This invention has for its object to so construct a bulletin-board that the removable letters placed thereon will be locked secure, so they will not drop off when the board is vibrated, and so also that the letters cannot be easily abstracted.

Our invention consists principally in providing such a bulletin-board with a longitudinal locking-bar, which extends over the upper edges of a row of letters, and locks the same in position, as hereinafter more fully described.

In the accompanying drawing, Figure 1 represents a perspective view of a portion of a bulletin-board containing our improvement. Fig. 2 is a vertical transverse section of a modification of the same; Figs. 3 and 4, face views of further modifications, and Fig. 5 a vertical transverse section of Fig. 4.

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

A is a suitable bulletin-board, having one or more horizontal ribs, *a*, for the support of the removable letters B B, to be displayed thereon. C is our improved locking-bar. The same is placed lengthwise against the face of the board A, directly over a row of letters, B B, to confine them in place, and prevent their unauthorized abstraction or spontaneous displacement. This bar C is interposed either as in Figs. 1, 2, and 3, between the upper edges of the letters and an upper rib, *b*, of the board A, or it may, as in Figs. 4 and 5, be made in

form of a clasp, to engage over the upper edge of the board, thus holding the letters in position. We prefer to use the locking-rod beneath the rib *b*, as it is in this form best adapted to boards displaying two or more horizontal rows of letters.

The rib *b* is, by preference, grooved on its under side, as shown, to properly secure the rod C, and the rod C may either partly lap over the letters, as in Figs. 1 and 3, or enter into grooves in said letters, as in Fig. 2, or merely rest upon them. When the rod is withdrawn the letters can be removed, but not otherwise.

In Fig. 1 the board A is, at one edge, shown to be provided with a pivoted rail, D, which, when swung against the end of the locking-rod C, will lock the same in place, and thus afford an additional security for the proper retention of the letters. But the rod may be confined by other devices, such as pins, hooks, or the like, which will affect it in the same manner as the locking-rail D.

We claim as our invention—

1. A bulletin-board, A, combined with the removable letters B B, and with the removable rod C, which is applied to lock said letters, substantially as specified.

2. The combination of the bulletin board A and removable locking-rod C, with the device D for securing said rod C, substantially as herein shown and described.

J. A. CRANDALL.
DE WITT C. TAYLOR.

Witnesses:

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A. V. BRIESEN.