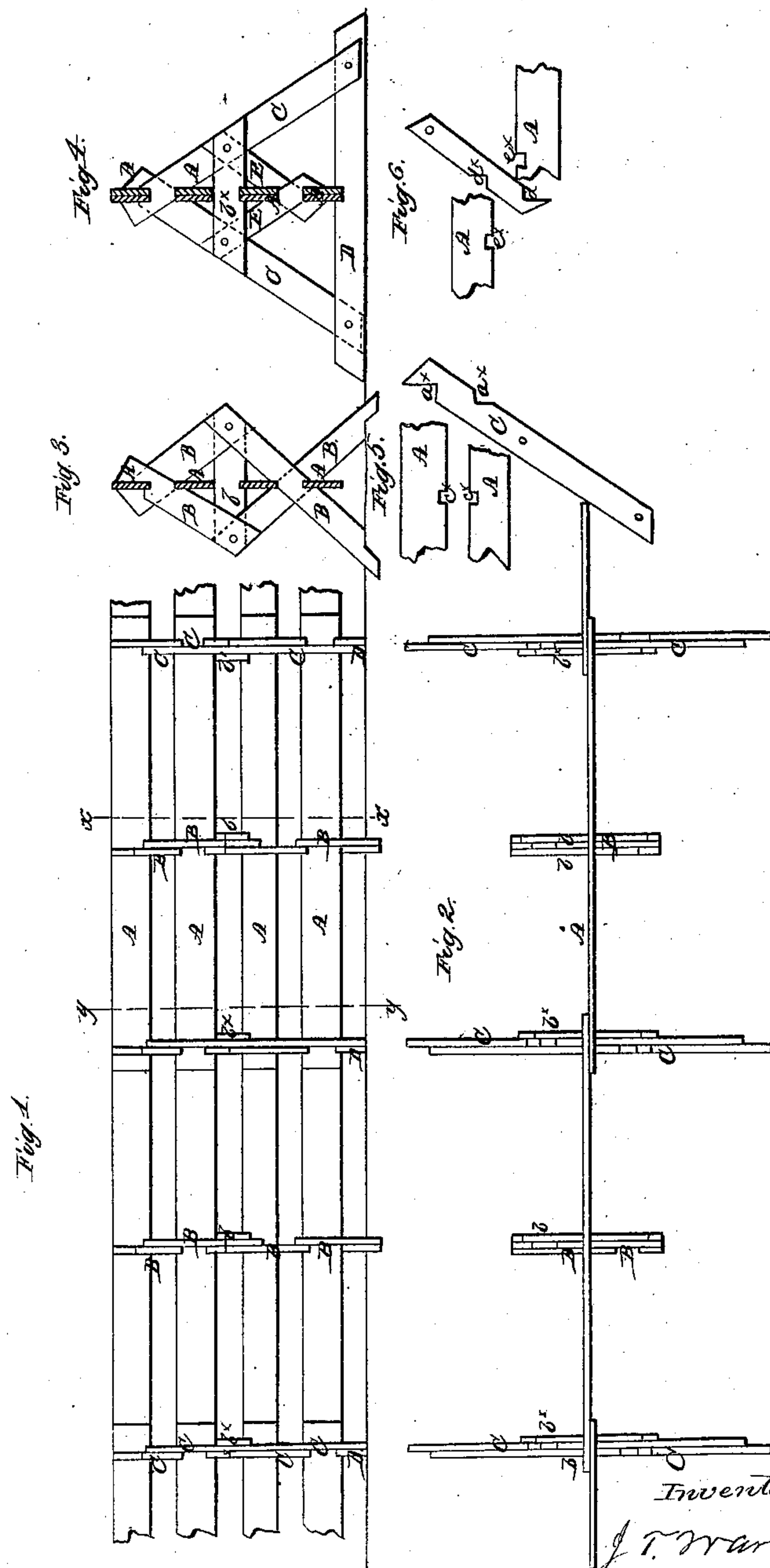


J. F. Warner,

Portable Fence,

Nº 52,629.

Patented Feb. 13, 1866.



Witnesses:
Jos B. Formington
Thos. Duell

Inventor:
J. F. Warner
per J. M. H. H.
Attorneys.

UNITED STATES PATENT OFFICE.

J. F. WARNER, OF OSKALOOSA, IOWA.

IMPROVEMENT IN FENCES.

Specification forming part of Letters Patent No. 52,629, dated February 13, 1866.

To all whom it may concern:

Be it known that I, J. F. WARNER, of Oskaloosa, in the county of Mahaska and State of Iowa, have invented a new and Improved Fence; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side view of my invention; Fig. 2, a plan or top view of the same; Fig. 3, a transverse section of the same, taken in the line *x x*, Fig. 1; Fig. 4, a transverse section of the same, taken in the line *y y*, Fig. 1; Figs. 5 and 6, detached views of portions of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and improved fence of that class which are constructed of boards or slats arranged horizontally and parallel with each other.

The invention consists in supporting the boards of the fence by means of cross-braces, with notches in said braces, and connecting the panels by lapping the boards, clamping the ends between the braces, thereby dispensing with the use of nails, the whole being self-supporting and fastened together by means of pins of wood or other material, substantially as hereinafter set forth.

A represents the boards or slats of the fence, any proper or desired number being used according to the height desired. For a fence for inside fences I prefer a three-board fence of ten-inch-wide boards.

The boards of each panel are retained in position by means of braces B, fitted or connected together by pins *a* (see Fig. 3) and a cross-bar, *b*. These braces are notched as well as the boards, and the former firmly clamp the latter, holding them in proper position, the lower ends of the lower braces, B, being driven into the ground or inserted in sills which rest upon the ground, and secured thereto by stakes.

It will be seen by referring to Fig. 3 that

the braces are arranged diamond shape, or like the lazy-tongs, the cross-bar *b* preventing them from spreading. Any number of these braces may be applied to the panels. The boards of the several panels are lapped at their ends, and the lapped ends are clamped by diagonal braces C, which are lapped at their upper ends, are notched, and clamp the upper boards, as shown clearly in Fig. 4. These braces C extend down and are attached to sills D, into which the lapped ends of the lower boards, A, are fitted, and from each brace C there is a pendent brace, E, which clamp the lower boards over the sill. A cross-bar, *b**, is also used with these braces, and the cross-bars *b b** of both systems of braces serve to hold or retain the central boards of the panels, as will be seen by referring to Figs. 3 and 4.

In Fig. 5 the notches *a** in the upper braces are shown, as well as the notches *c** in the boards; and in Fig. 6 the notches *d** in the pendent braces E, with the notches *e** in the boards, are shown.

Both systems of braces are constructed entirely on the same principle, and either of them may be used exclusively. I prefer, however, the braces C with the sills D. A trifle more lumber is required for this arrangement than the other, but they would be more readily constructed by farmers.

I do not confine myself to the precise arrangement of the details as herein shown and described as regards the notching of the boards, for the top boards need only be notched in order to hold the braces together.

I claim as new and desire to secure by Letters Patent—

The construction and arrangement of the braces and cross-bars applied to the boards or panels of the fence, substantially as herein shown and described.

The above specification of my invention signed by me this 12th day of September, 1865.

J. F. WARNER.

Witnesses:

GEO. W. LAFFERTY,
WM. H. NEEDHAM.