

D. SATTLER.
Farm-Fence.

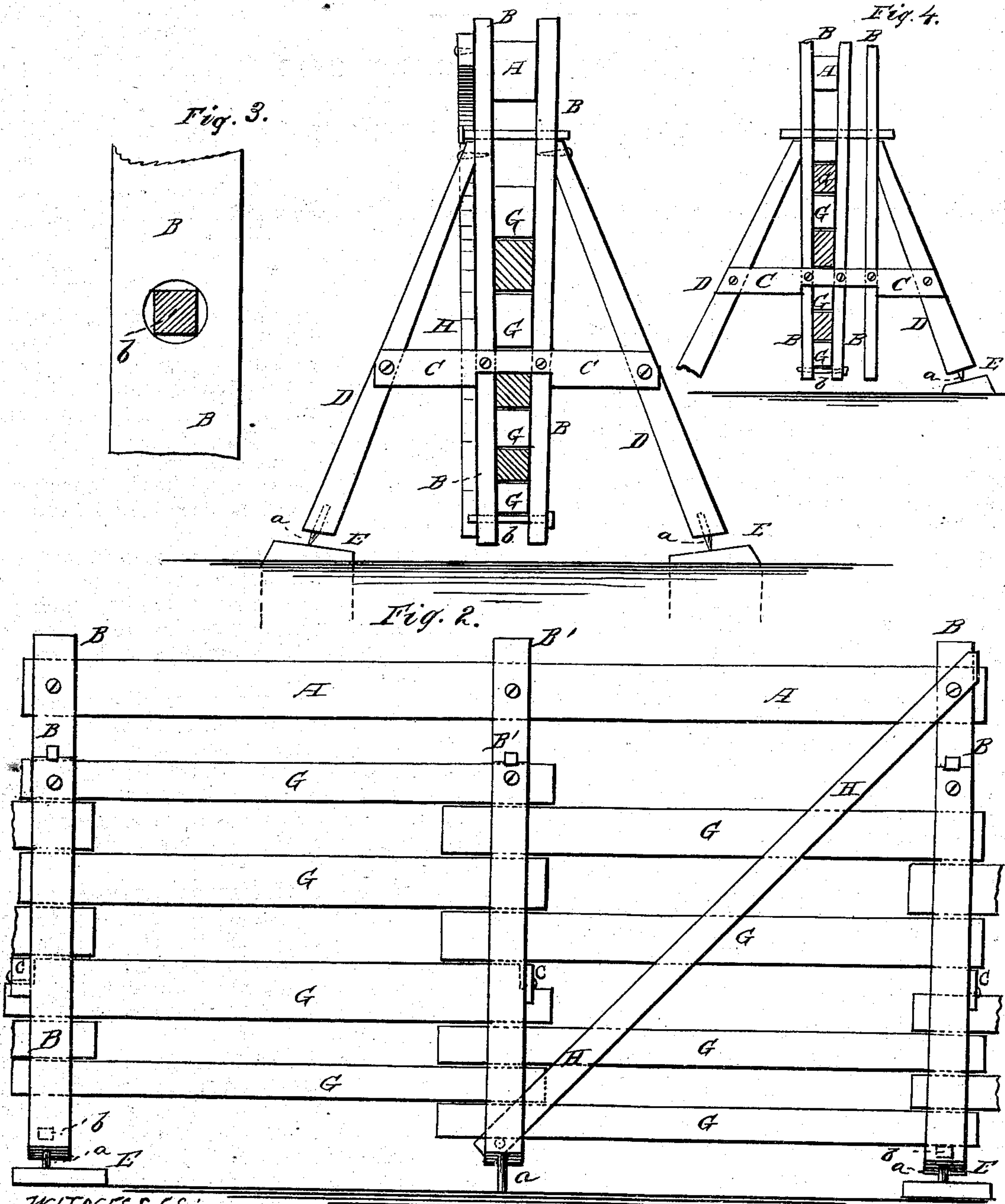
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Fig. 1.

Fig. 4.

Fig. 3.



WITNESSES:
P. C. Dieterich.
W. C. McArthur.

INVENTOR:
David Sattler
per J. H. Alexander
ATTORNEY.

UNITED STATES PATENT OFFICE.

DAVID SATTLER, OF NAPOLEON, OHIO.

IMPROVEMENT IN FARM-FENCES.

Specification forming part of Letters Patent No. **159,459**, dated February 2, 1875; application filed December 7, 1874.

To all whom it may concern:

Be it known that I, DAVID SATTLER, of Napoleon, in the county of Henry and State of Ohio, have invented certain new and useful Improvements in Farm-Fences; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a fence, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 represents an end view, and Fig. 2 represents a side elevation, of my fence. Fig. 3 is a detail view, showing pin *b*; and Fig. 4 is a modification, showing fence when three vertical bars are used.

Each panel of my fence is constructed in the following manner:

A represents the top rail, which is secured at each end between the upper ends of two vertical bars, B B. The bars B B, as will be observed in Fig. 1, are placed and secured in such position to each other that a wedge-shaped space is left between them, so that the ends of the rails as they shrink will settle down, and thus keep the structure firm. The bars B B are secured together by means of cross-bar C, which bar is firmly secured to the two inclined braces D D. This cross-bar may be made of wood or metal, as desired. E E represent wooden or other blocks placed on or in the ground, and having their upper surfaces beveled or inclined inward, and from the center of each block projects a metal pin, *a*. Upon these pins the lower ends of the braces D D are placed; or the pins may be fastened in and project from the braces, and then be placed on or in the blocks E, in such a manner that the braces and blocks will not come in con-

tact with each other, but spaces be left between them to prevent the ends of the braces from rotting by water settling under them. The upper surfaces of the blocks being inclined, the water will run off easily. In the center of the panel the top rail, A, is fastened to the two battens B' B', one on each side, and these are connected by a cross-bar, C, with side braces, D D, in the same manner as described for the ends of the panel.

After a structure of this kind has been erected, rails G G are inserted between the bars B B and battens B' B', the ends overlapping each other, and the bottom rails resting upon pins *b b*, inserted through the lower ends of the vertical bars and battens.

It will be particularly observed that these pins are made square, and the holes in which they are inserted being round there is left a space on the four sides of the pin for ventilation, which will thus preserve them.

It will be noticed that no part of this fence touches the ground. It is entirely suspended on the metal pins *a*.

A diagonal brace, H, may be attached to the fence, as shown, wherever necessary to prevent any end motion of the fence. This is especially required on hilly ground.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The vertical bars B B B' B', secured together by pins near their top and bottom, to form a wedge-shaped space for the overlapping loose rails, in combination with the cross-bars C C and the inclined braces D D, having metal pins *a a*, resting on inclined ground-posts E E, all constructed as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

DAVID SATTLER.

Witnesses:

E. C. WEAVER,
M. C. BARNARD.