

(No Model.)

W. E. BROCK.  
WINDOW SCREEN.

No. 290,173.

Patented Dec. 11, 1883.

Fig. 1

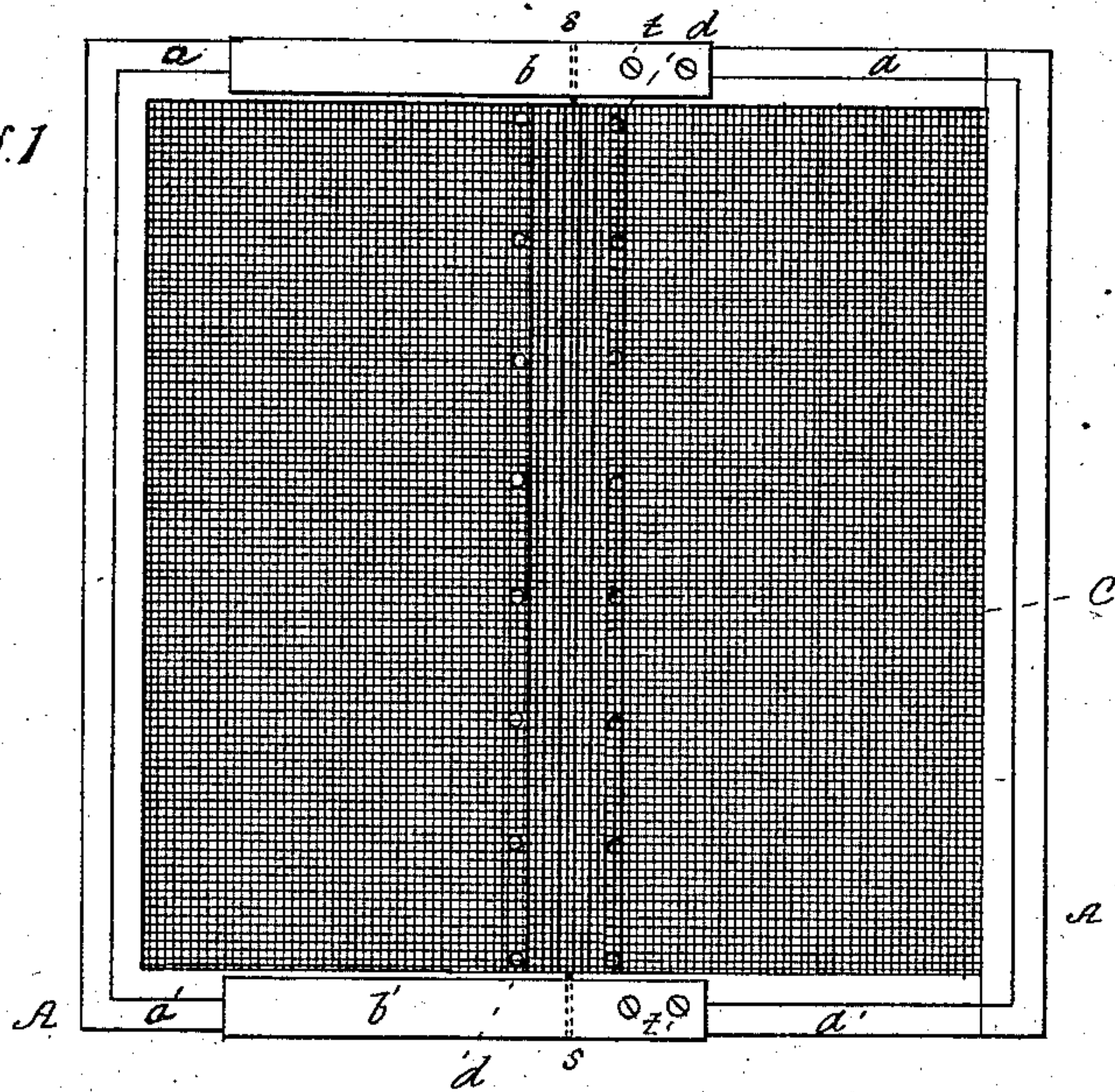


Fig. 2

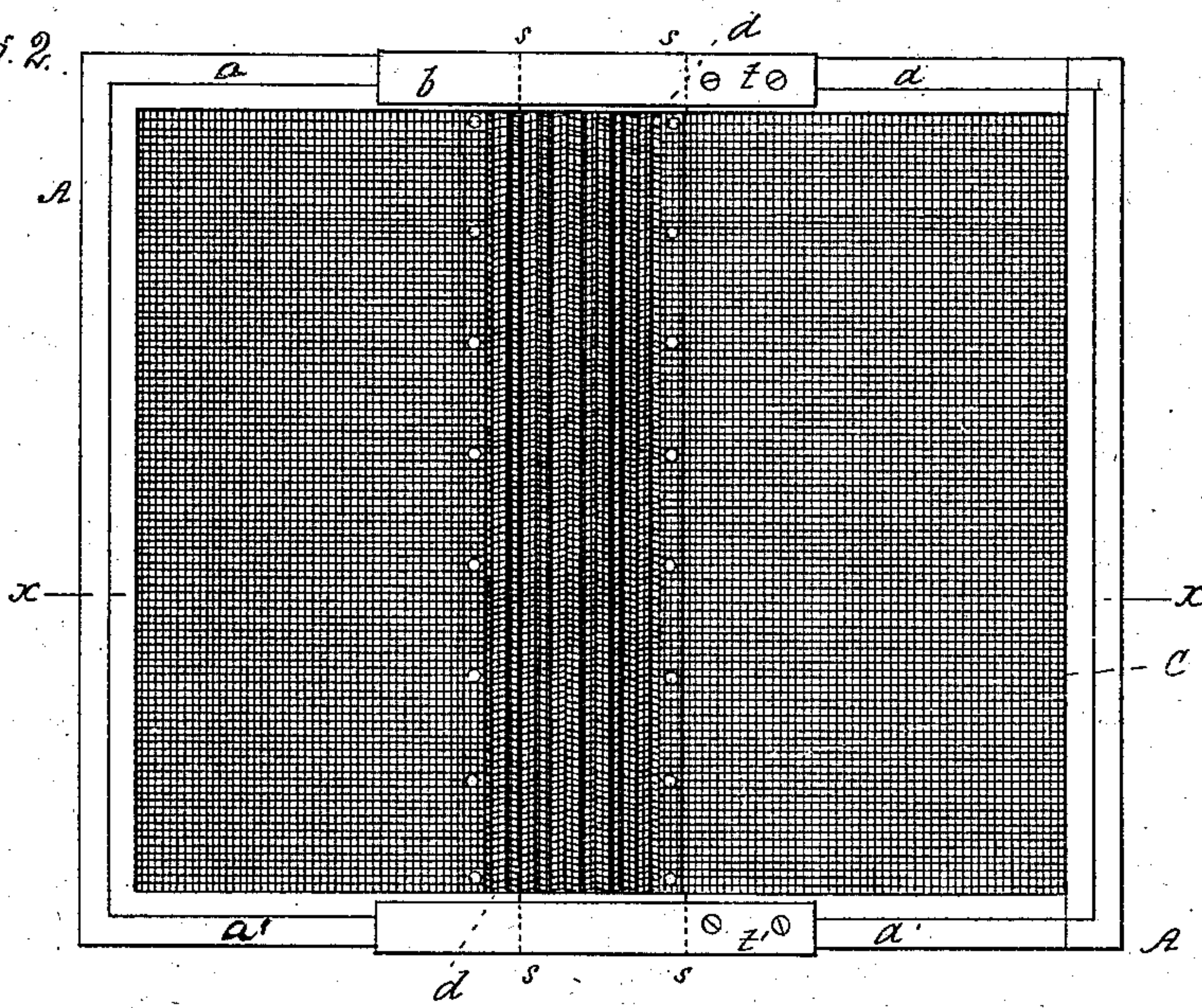
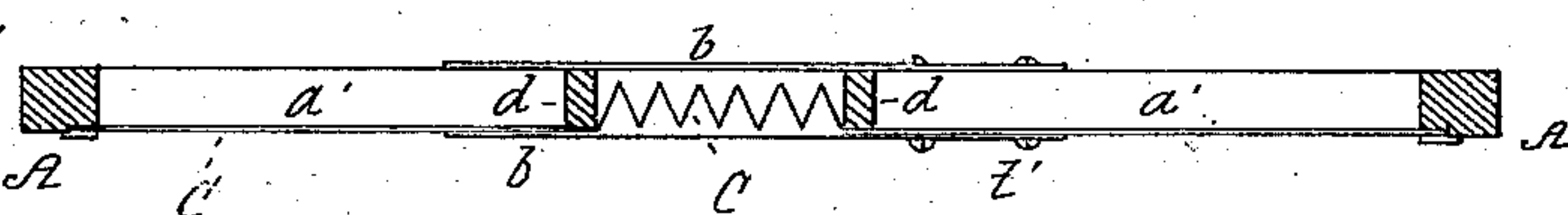


Fig. 3



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# UNITED STATES PATENT OFFICE.

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## WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 290,173, dated December 11, 1883.

Application filed May 11, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM E. BROCK, a citizen of the United States, residing at Dunellen, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Window-Screens; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to an improvement in expansible window-screens of the kind which are used in the summer season for admitting air and excluding insects, and which are covered with wire-netting or other netting for that purpose, and the object of said invention is to construct an expansible window-screen in such a manner that while it can be readily and easily adjusted to the width of the window-frame, shall at the same time be very simple in construction and inexpensive, and also very neat in appearance, and not liable to get out of order.

The invention consists in an expansible window-screen composed of the following parts—namely, a rectangular frame having its upper and lower rails divided at their center, and the adjoining ends fitted to slide in a sleeve, two upright and parallel bars, one of which is secured to each section of the frame at a short distance from the aforesaid division in the same, and a web of wire-netting or other netting, which is stretched between and secured to the said frame and upright bars, and the central portion thereof, which comes between the said upright bars, is crimped or folded in vandykes, so that when the two sections of the frame are spread apart the crimped portion of said netting will expand and will lie snugly in folds between said upright bars when the two sections of the frame are drawn together, all of which is hereinafter particularly set forth and described. By means of this construction all the sides of the frame are on one and the same plane, and the devices employed for rendering the screen expansible, instead of detracting from the neat appearance of the screen, as in the case of all expansible screens heretofore used, add to the neat and ornamental appearance thereof, and the screen is readily and easily adjusted to fit closely to the window-frame in which it may be used.

In the accompanying drawings, Figure 1 rep-

resents my improved window-screen with the sections drawn together. Fig. 2 represents the same expanded, and Fig. 3 is a horizontal section on the line *x x*.

Similar letters of reference indicate the same parts in all the several figures.

A is the ordinary rectangular frame, of wood or other suitable material, which fits into the window-frame under the sash. The upper and lower rails of the frame (marked *a* and *a'*, respectively) are divided about midway, as shown by the dotted lines *s*, and the free side being fitted to slide in sleeves *b* and *b'*, which may be of any suitable material—as tin or sheet-brass—and are secured at one end to one section of the frame, as shown at *t t'*.

*d d* are two upright bars secured to the rails *a* and *a'*, near the divisions in the same, said bars being parallel with each other and with the sides of the frame A, as shown.

C is a web of wire-netting or other suitable material, which is stretched over and between the sides of the frame A and the bars *d d*, and secured to said frame and bars by tacks or other suitable means. The central portion of this web C, or that portion thereof which comes between the bars *d d*, is crimped or folded in vandykes, so that it will expand when the two sections of the frame are drawn apart, and will lie snugly in folds between the bars *d d* when the two sections of the frame are drawn together.

By means of this construction the cumbersome devices usually employed in rendering a window screen expansible are dispensed with, and there is nothing to detract from its neat and ornamental appearance.

What I claim as my invention is—

An adjustable or expansible window-screen composed of the rectangular frame A, the upper and lower rails, *a* and *a'*, of which are divided about midway and fitted to slide in sleeves *b* and *b'*, secured to one section of the frame, the upright parallel bars *d d*, one of which is secured to the upper and lower rails, *a* and *a'*, of each section of the frame, and the netting C, secured to the frame A and bars *d d*, and the central portion of which, between said bars *d d*, is crimped or folded in vandykes, the whole being constructed and arranged substantially as shown and described.

Witnesses: WILLIAM E. BROCK.

W. I. JAQUES,

JOHN S. THORNTON.