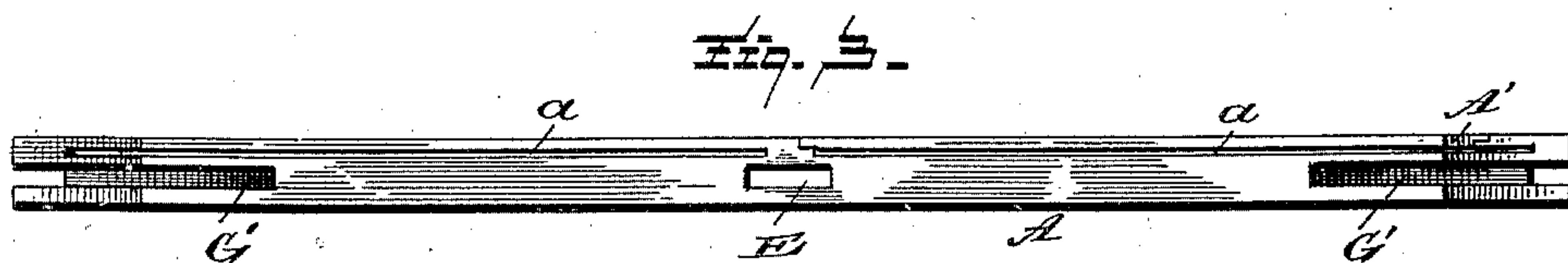
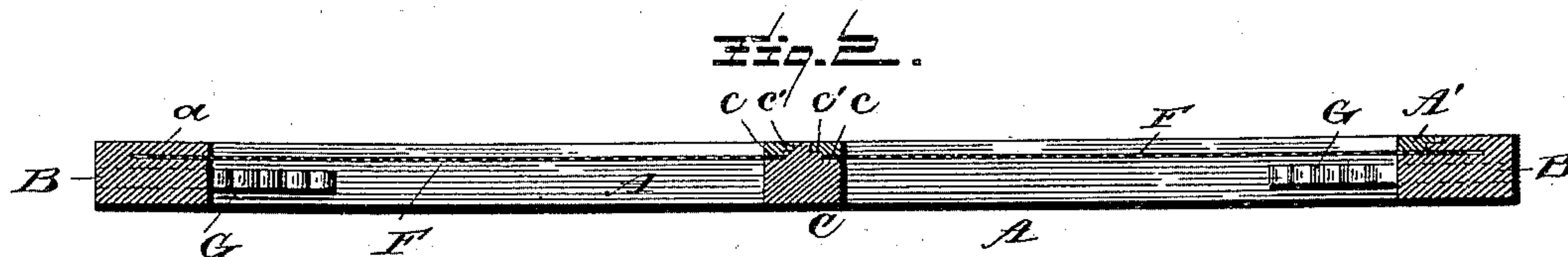
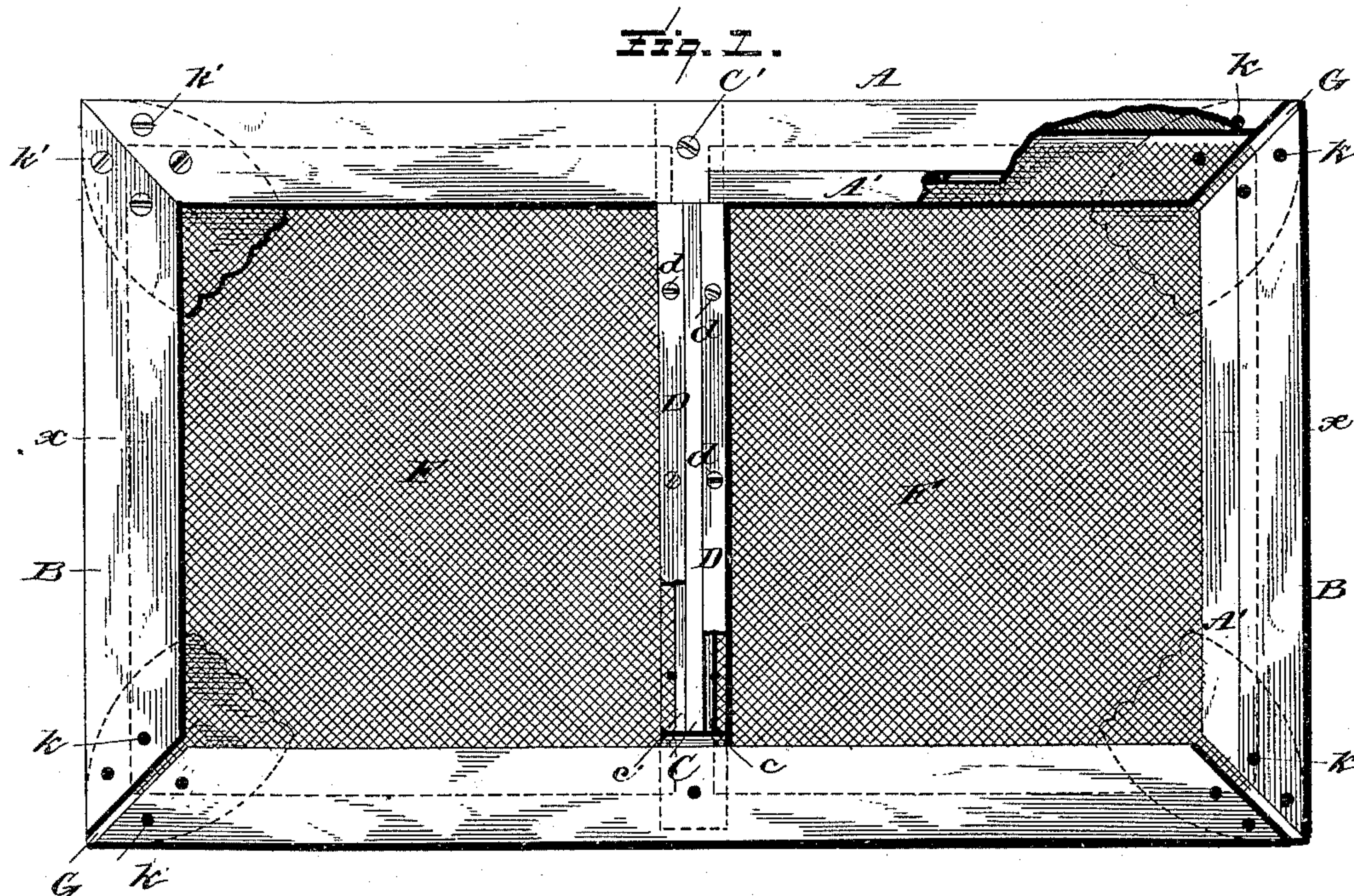


(No Model.)

R. H. KRALL.  
SCREEN.

No. 426,595.

Patented Apr. 29, 1890.



Witnesses

L. C. Mills.  
C. S. Champion.

Inventor

Richard H. Krall

E. B. Stocking  
Attorney



# UNITED STATES PATENT OFFICE.

RICHARD H. KRALL, OF ALLENTOWN, PENNSYLVANIA.

## SCREEN.

SPECIFICATION forming part of Letters Patent No. 426,595, dated April 29, 1890.

Application filed August 2, 1889. Serial No. 319,524. (No model.)

*To all whom it may concern:*

Be it known that I, RICHARD H. KRALL, a citizen of the United States, residing at Allentown, in the county of Lehigh, State of Pennsylvania, have invented certain new and useful Improvements in Screens, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention has relation to an improvement in extensible screens, the main object of the invention being to provide a screen adjustable in any direction by means of corner-pieces constructed and operating in a novel manner, as hereinafter described.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a front elevation of a screen constructed in accordance with my invention, showing the manner of extending the same, and having portions broken away to show the interior construction. Fig. 2 is a longitudinal cross-section on the line  $x x$  of Fig. 1; and Fig. 3 is an elevation of the upper stile, looking against the inner edge of the same.

Like letters of reference indicate like parts in all the figures of the drawings.

The drawings are intended to represent a door constructed in accordance with my invention, but will apply equally as well to a window-screen. The stiles A and the end pieces B are formed with the deep kerfs  $a$ , in which the wire-cloth F is adapted to fit and in which it may be adjusted to vary the size of the screen. The cross-piece or mullion C has the shoulders  $c$  and  $c'$ . The wire-cloth is adapted to rest upon the shoulders  $c$ , and is fastened to the cross-piece, preferably, by means of screws passing through the fastening-strips D, which rest upon the wire and upon the shoulders  $c'$ . The ends of the cross-pieces are adapted to fit loosely in the mortises E of the stiles A, said mortises being cut either entirely or only partly through the stiles. The tenons of the cross-piece which enter the mortises in the stiles are secured

in any desired position by means of the binding-screws C' passing through the stiles and into the tenons.

When the screen is adjusted to the proper size of the door or window it is intended to fit, the wire may be fastened firmly in place, if desired, by means of the fastening-strips A', having shoulders similar to those of the strips D and fitting into shoulders of the stiles and end pieces similar to those of the cross-piece or mullion C. The corner-pieces G have their working sides curved to play in the recesses G', (see Fig. 3,) whose sides are correspondingly curved. The ends of the stiles and end pieces have the screw-holes  $k$ , through which the screws or other fastening devices  $k'$  are adapted to pass and through the wire and stile to fasten the wire firmly in place when the screen has been adjusted to the proper height and width. When the stiles and end pieces are pushed out, the corner-pieces G are also pressed out, so that the corners of the frame will always be substantially square and present a neat appearance.

Having thus described my invention, what I claim is—

A screen comprising the stiles A, the end pieces B, having the kerfs  $a$  and recesses G', the adjustable corner-pieces in said recesses for adjusting the stiles and end pieces at right angles to each other, the cross-piece or mullion C, the rabbeted fastening-strips A' at one side and end of the wire-cloth, extending over said kerfs  $a$ , the wire-cloth F, the strips D, securing the wire-cloth to the mullion, and thesecuring devices, as the screws  $k'$ , engaging the stiles and end pieces and corner-pieces outside the fastening-strips for holding the parts in their adjusted positions, substantially as shown and described.

In testimony whereof I affix my signature in presence of two witnesses.

RICHARD H. KRALL.

Witnesses:

LOUIS SCHAEFER,  
C. J. EASTMAN.