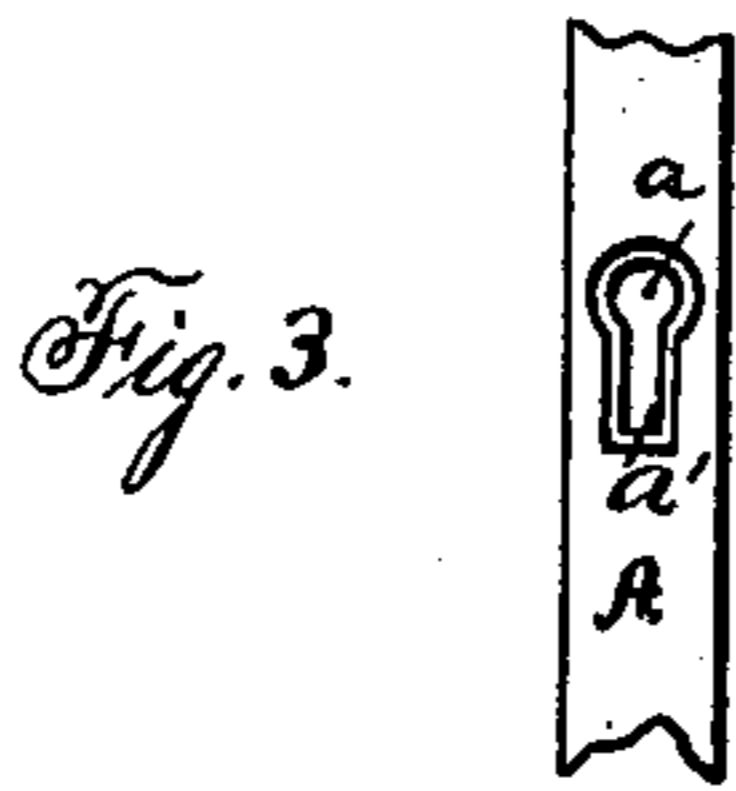
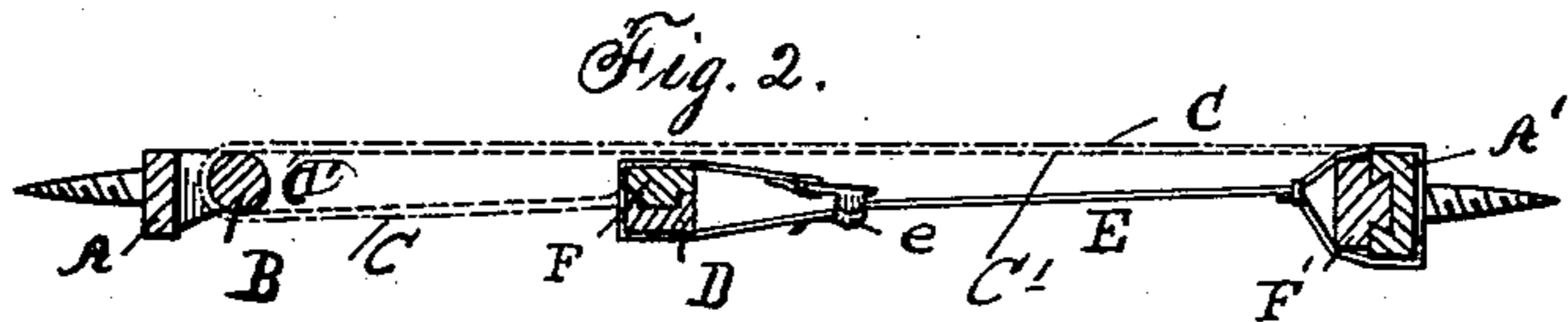
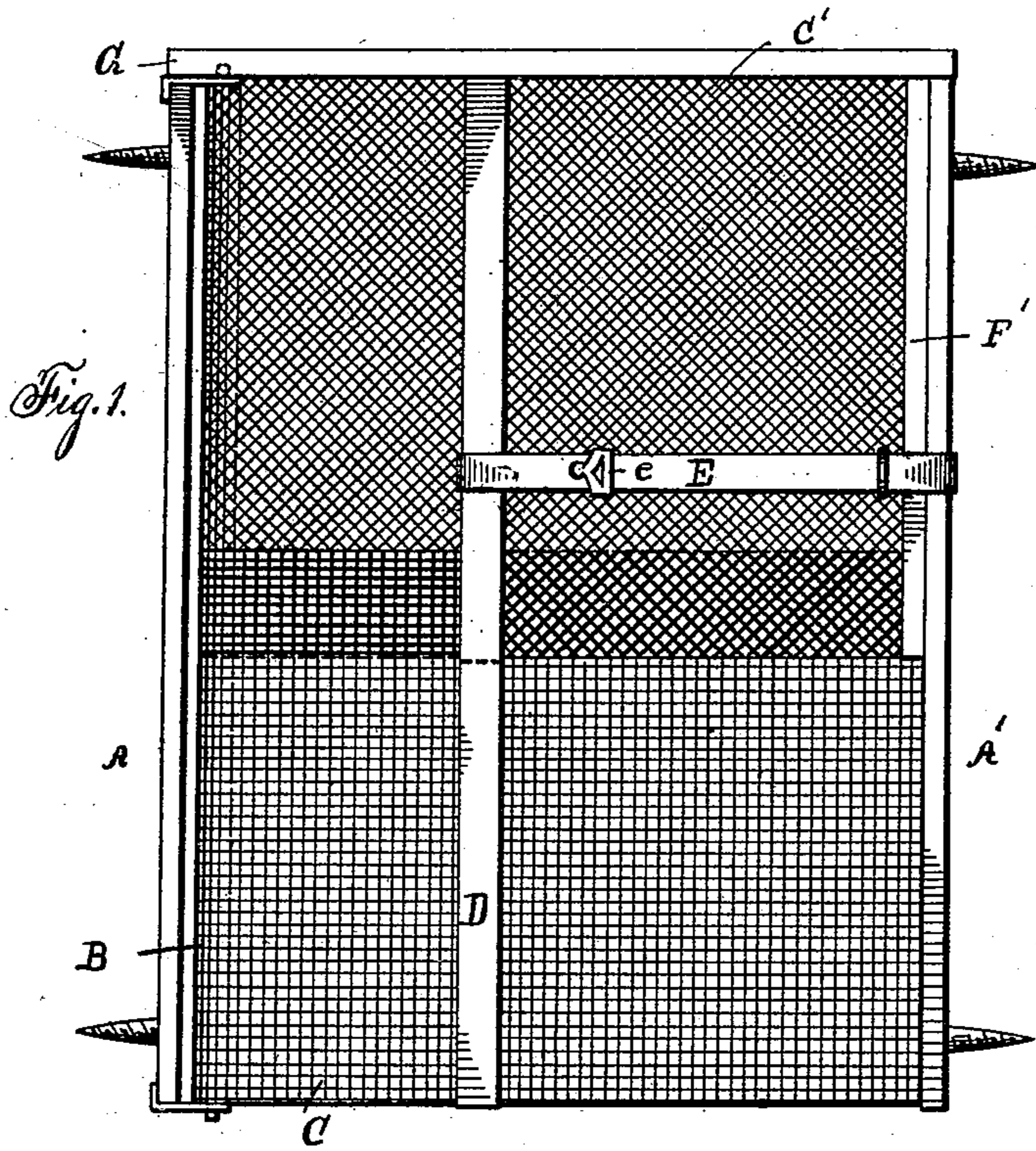


(No Model.)

G. W. & W. H. GORDON.
ADJUSTABLE WINDOW SCREEN.

No. 282,716.

Patented Aug. 7, 1883.



WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE W. GORDON AND WILLIAM H. GORDON, OF DETROIT, MICHIGAN.

ADJUSTABLE WINDOW-SCREEN.

SPECIFICATION forming part of Letters Patent No. 282,716, dated August 7, 1883.

Application filed February 12, 1883. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. GORDON and WILLIAM H. GORDON, of Detroit, county of Wayne, State of Michigan, have invented a new and useful Improvement in Adjustable Window-Screens; and we do hereby declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form a part of this specification.

Our invention consists in the combination of devices and appliances hereinafter specified, and more particularly pointed out in the claims.

Figure 1 is a side elevation embodying our invention. Fig. 2 is a horizontal section. Fig. 3 is a separate view of one of the parts.

Our invention relates to window-screens, and is designed to provide a screen which may be adjusted horizontally or perpendicularly, or both, as may be desired. We accomplish this result as follows:

A and A' represent two side pieces of the frame. These pieces may be screwed directly to the window-frame; but we prefer to provide a suitable orifice, *a*, having a slot, *a'*, connected therewith, the construction being such that by screwing a screw in the window-frame said side pieces may be passed over the screws and be brought down and behind the head of the screw, so that the frame of the screen shall be securely held in place by means of the screw in the slot *a'*.

B is a roller secured to the side piece A.

C is the wire-cloth or other suitable fabric. We design to pass this fabric over the roller and connect one end by tacking or otherwise to a strip, D, and the other end by similar means to strip A' in such manner that the fabric may be adjusted horizontally for window-frames of different widths.

E is an adjustable strap connecting the side piece A' and the strip D, the construction being such that the strap may be lengthened or shortened to correspond with the required adjustment of the screen in the frame, said screen being held in its proper position horizontally by means of said adjustable strap E. Said strap may be made adjustable in any suitable manner—as, for instance, by a buckle or clasp, *e*.

For the purpose of adjusting the screen perpendicularly we provide the side piece A' and the strip D, respectively, with a slide, F and F', said slides being either dovetailed to the side piece A' and the strip D, or made to slide perpendicularly upon the same by means of a slot adapted to be adjusted in position by means of a screw.

C' is a separate strip of wire-cloth or other suitable fabric connected with the slides F and F' and passed over the roller B, so as to be adjusted horizontally, as hereinbefore described, and it overlaps the fabric C, so as to allow for vertical adjustment and prevent a gap between the two fabrics.

When the screen is to be adjusted vertically in placing in position, the side piece A and roller B of the desired length is supplied, and the fabrics C and C' adjusted by sliding the slides F and F' on the strips D and A'. In obtaining the horizontal adjustment the strap E is lengthened or shortened, as desired, so as to move the strip D and slide F one way or the other, and thereby let out or take up fabrics crosswise, and an upper bar, G, of the desired length is supplied.

If preferred, the top bar may be made of two parts dovetailed together so as to be lengthened or shortened, and, if desired, the roller and side piece A may be made in sections, so as to slide, and in that way be extensible. These variations are what would suggest themselves to any ordinary mechanic, and, as stated, may be used instead of the other method which we have described.

It is evident that a screen thus constructed can be readily adjusted to the window-frame either on the inside or the outside of the sash, as may be desired, and may be readily adjusted to the desired width horizontally and to any desired height.

What we claim is—

1. A window-screen consisting of side bars, A and A', a roller secured to one of said bars, a suitable fabric secured firmly to one of the bars and passing freely over said roller, and in connection therewith an adjustable strap whereby the screen may be adjusted horizontally, substantially as described.

2. An adjustable window-screen consisting of side bars adapted to be secured to the window-frame, a roller attached to one of said

bars, a suitable fabric connected with one of
said bars and passing freely over said roller,
and in connection therewith a strap, E, se-
cured to the free end of the fabric, and an ad-
5 justable strap whereby the fabric may be ad-
justed horizontally, substantially as described.

3. An adjustable window-screen consisting
of side bars, A and A', a roller secured to one
of said bars, a fabric passed over said roller
10 secured to the opposite bar and to the strap E,
an adjustable strap whereby the screen may be
adjusted horizontally, and in connection there-
with slides adjustably secured upon the bar

A' and the strap E, and a suitably-connected
fabric, C', passed over the said roller and se- 15
cured to the said slides, the construction being
such that the screen may be adjusted perpen-
dicularly, substantially as described.

In testimony whereof we sign this specifica-
tion in the presence of two witnesses.

GEORGE W. GORDON.
WILLIAM H. GORDON. .

Witnesses:

N. S. WRIGHT,
A. E. INGLIS.