

(No Model.)

J. NEIFING.

FLY SCREEN.

No. 372,484.

Patented Nov. 1, 1887.

Fig. 1.

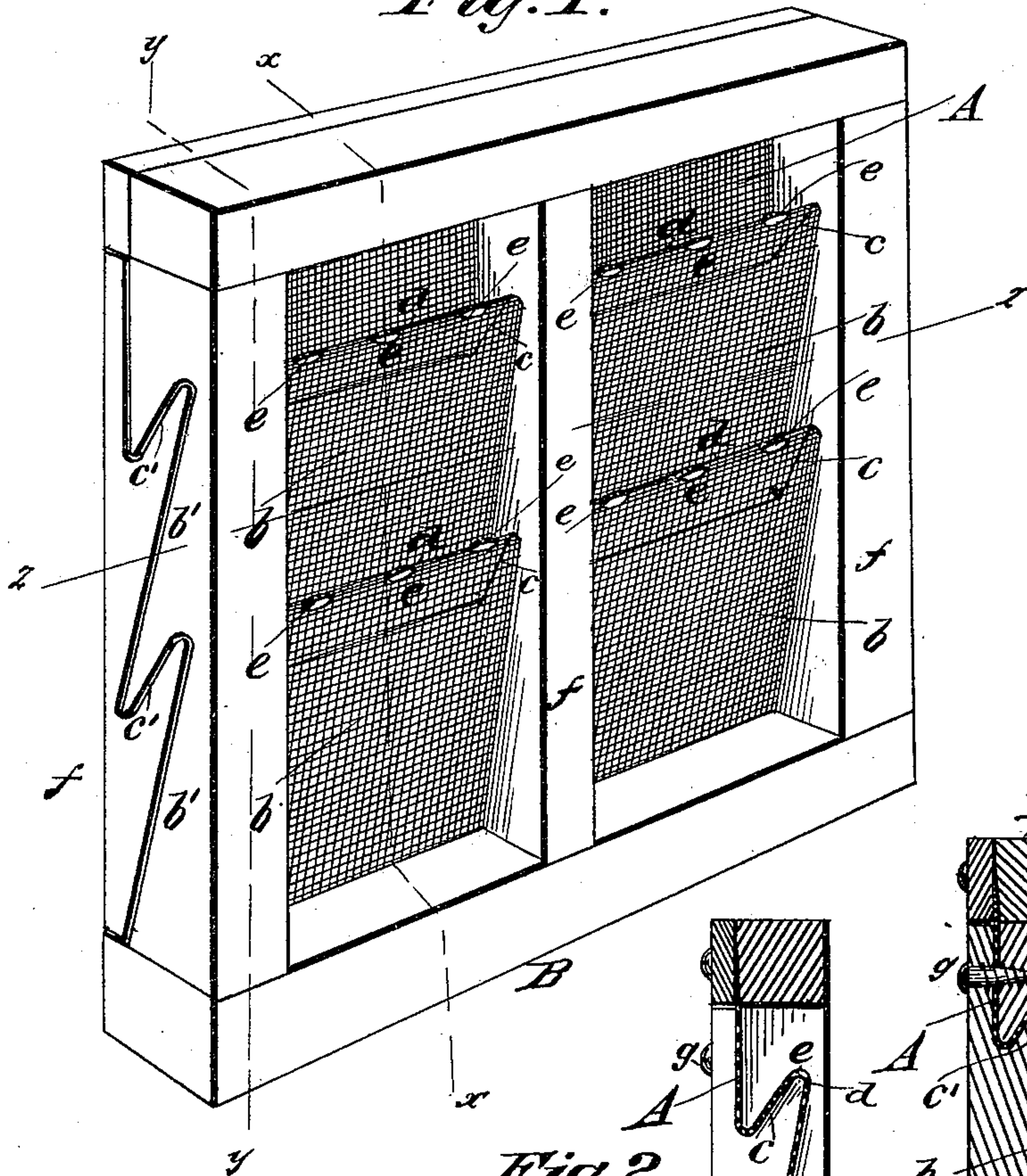


Fig. 3.

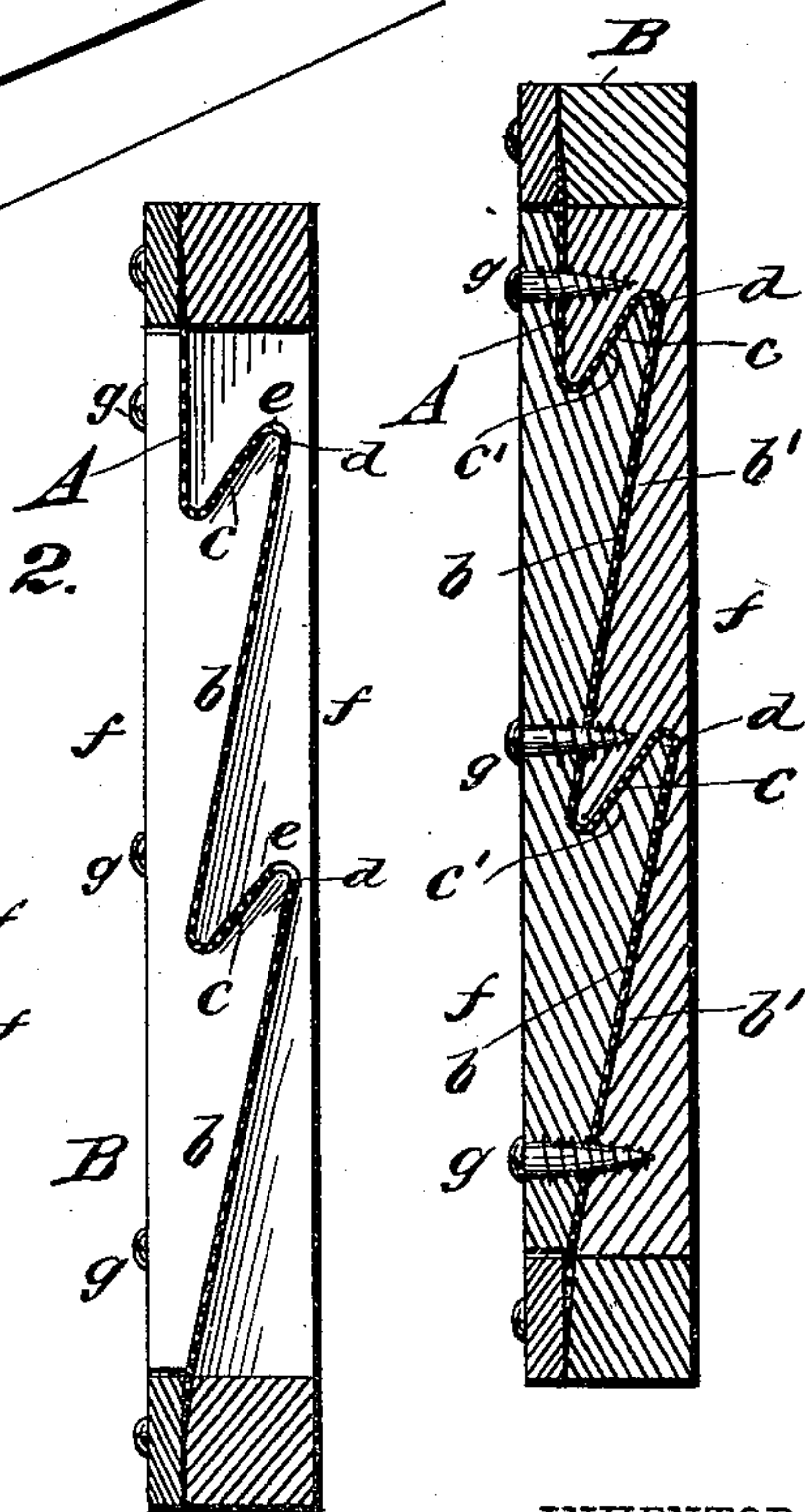
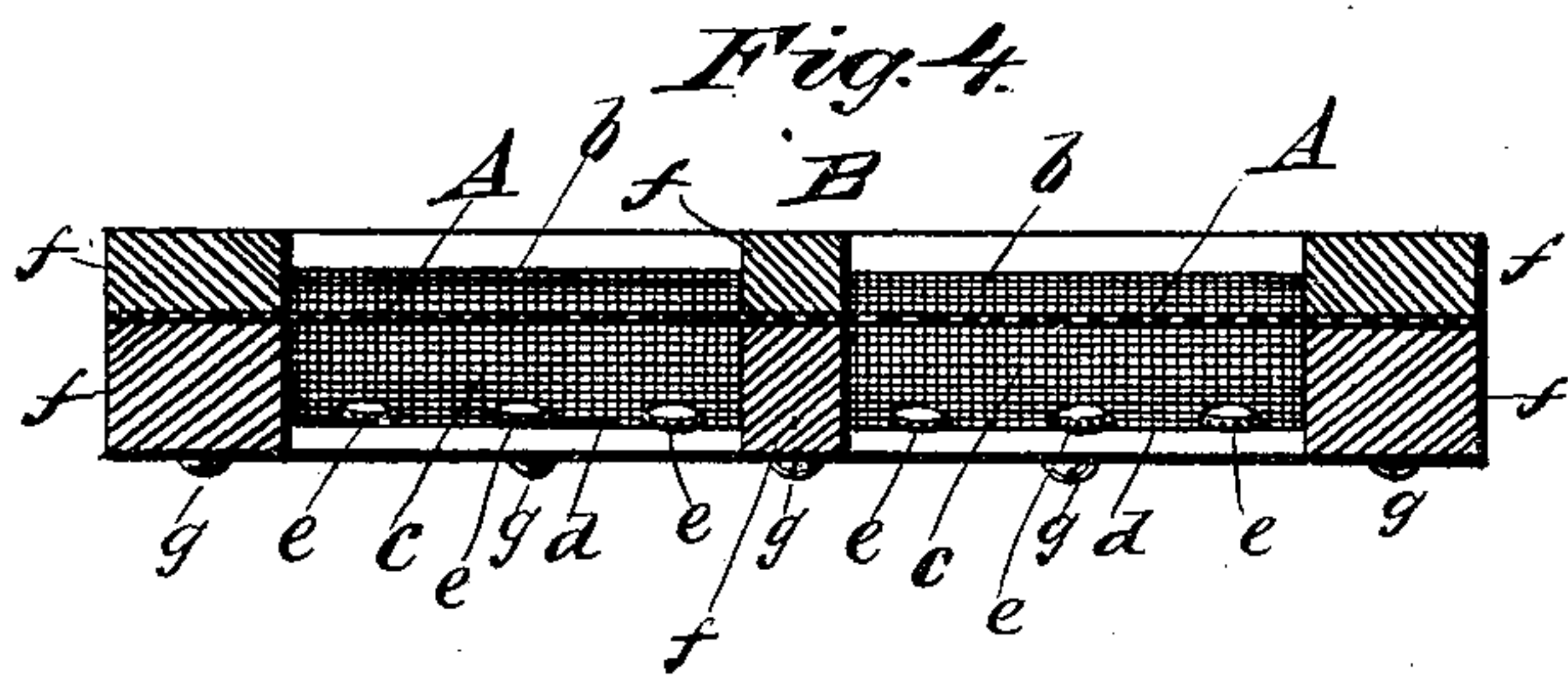


Fig. 2.



WITNESSES:

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FLY-SCREEN.

SPECIFICATION forming part of Letters Patent No. 372,484, dated November 1, 1887.

Application filed August 20, 1887. Serial No. 247,436. (No model.)

To all whom it may concern:

Be it known that I, JULIUS NEIFING, of Crown Point, in the county of Lake and State of Indiana, have invented a new and useful Improvement in Fly-Screens, of which the following is a full, clear, and exact description.

This invention relates to window and other screens used for the exclusion of flies and other insects from apartments or elsewhere; and the invention consists in a novel construction of the screen, substantially as hereinafter described, and pointed out in the claim, whereby, while the screen serves to exclude flies from entering the apartment, it provides for the exit of any that may be in the room, and thus becomes what may be termed an "exit" fly-screen.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a perspective view, as seen from its exterior, of a fly-screen embodying my invention; Fig. 2, a vertical section of the same upon the line *xx* in Fig. 1; Fig. 3, a similar section upon the line *yy* in Fig. 1; and Fig. 4, a horizontal section of the screen upon the line *zz* in Fig. 1.

A is the reticulated portion or screen proper, made of wire or other suitable material, and B the frame in which said screen is secured, and which may be of any required external shape and size to fit the window or opening in the apartment the screen is to be applied to.

The screen A does not present a plain flat or straight surface in direction of its height, but an irregular one of zigzag form, it being made up of any number of main surfaces or portions, *b*, preferably inclining upward in an outward direction, and secondary surfaces or portions *c*, inclining backward in a downward direction. These secondary surfaces or portions *c*, which form bent continuations of the main portions *b* throughout the width of the screen, join the top of each lower portion, *b*, with the bottom of the next portion *b* above it, and are rounded at their junctions with said portions *b*. The outer bends, *d*, in this

zigzag screen—that is, the bends on the outside of the screen—have a series of holes, *e*, made in them at suitable distances apart, and each of said holes being of a size that will freely admit a fly through it.

In practice, when the screen is applied to an open window, for instance, flies within the apartment will naturally walk along and up the screen and out through the holes *e*, but will seldom or never enter from the outside of the window down through said holes. Thus flies within the apartment find their way to the open or outside air without being driven out, while flies outside of the screen are excluded from getting in.

To hold and secure this zigzag screen within its frame B, the uprights *f* of said frame are constructed or divided longitudinally to form a zigzag joint, *b' c'*, corresponding to the zigzag shape of the screen, and the strips forming the two divisions of said uprights, holding the screen in between them, are afterward secured together, as by screws *g*, uniting said strips and passing through the screen. The horizontal or upper and lower cross-pieces of the frame B may also be divided longitudinally, and the strips composing them and holding the upper and lower marginal portions of the screen between them be similarly secured by screws, but the joints formed by these strips may be straight ones, and the portions of the screen entering between them be also flat or straight.

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

In combination with the zigzag screen A, having fly-apertures *e* in the upper portions of the bends *d*, the frame B, of divided construction, adapted to clamp or hold the screen within it, and having the joint *b' c'* in its uprights, of zigzag configuration corresponding with that of the screen, substantially as specified.

JULIUS NEIFING.

Witnesses:

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