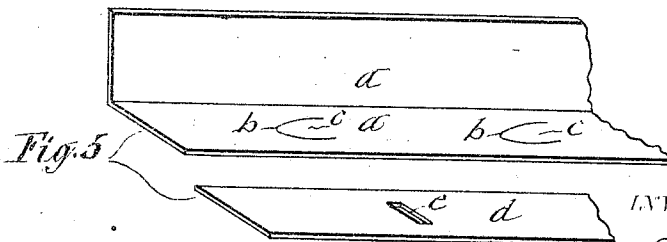
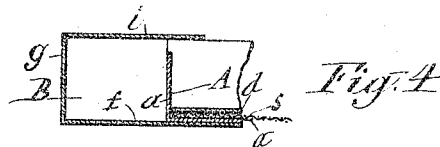
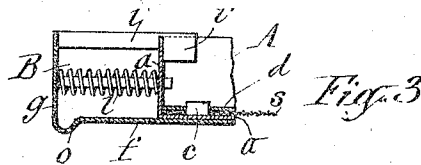
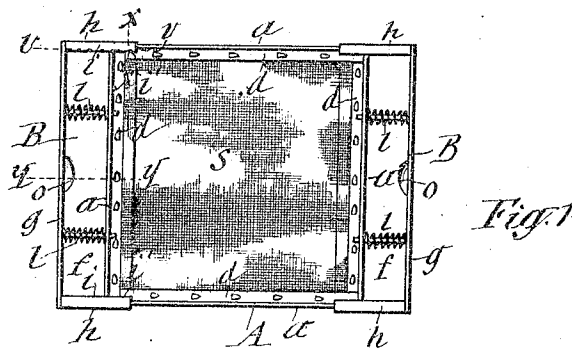
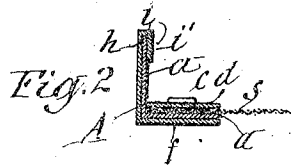


F. C. FERGUSON.
WINDOW SCREEN.
APPLICATION FILED DEC. 31, 1908.

934,059.

Patented Sept. 14, 1909.



WITNESSES:

J. J. Laass

E. S. Kaiser

INVENTOR

Frank C. Ferguson

E. C. Laass
ATTORNEY.

UNITED STATES PATENT OFFICE.

FRANK C. FERGUSON, OF ONEIDA, NEW YORK.

WINDOW-SCREEN.

934,059.

Specification of Letters Patent. Patented Sept. 14, 1909.

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To all whom it may concern:

Be it known that I, FRANK C. FERGUSON, a citizen of the United States, and resident of Oneida, in the county of Madison, in the State of New York, have invented new and useful Improvements in Window-Screens, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention consists in an improved construction of metal frames of window-screens.

The object of the invention is to simplify the construction of said frames and reduce the cost of manufacturing the same. And to that end the invention consists in the novel construction of the screen-frames herein described and claimed.

In the accompanying drawings Figure 1 is a plan view of a window-screen embodying my invention; Fig. 2 is an enlarged transverse section on the line —X—X— in Fig. 1; Figs. 3 and 4 are enlarged longitudinal sections respectively on the lines —Y—Y— and —V—V— in Fig. 1; and, Fig. 5 is an enlarged perspective view of portions of the screen-frame.

Similar letters of reference indicate corresponding parts.

—s— denotes the wire screen, which is attached to its supporting-frame —A—. This frame is composed of sheet metal bars —a—, which are formed L-shaped in cross-section as shown more clearly in Fig. 2 of the drawings. In the inwardly disposed portions of said L-shaped bars are cut U-shaped slits —b—b— forming integral tongues —c—c— as shown in Fig. 5 of the drawing. Upon the said portions of the bars —a— rest the margins of the wire screen-cloth —s— and upon the said margins are placed metal straps —d—d— provided with transverse slots —e—e— as shown in Fig. 5. The screen-cloth —s— is fastened to the frame —A— by means of the tongues —c—c— being bent from the plane of the bars —a— and passing through the screen-cloth and the slots —e—e— and bent down onto the bands —d—d— as shown in Fig. 4 of the drawings.

—B—B— denote movable supplemental side frames, each of which is formed in one piece of sheet metal, and consists of a plate —f— extending across one of the end portions of the screen-frame and having its margins formed in the shape of a side wall

—g—, and flanges —h—, which extend along the exterior of the frame —A— and are formed with inward folds —i— which engage the free edges of the top and bottom bars —a— of the screen-frame and the inner faces of said bars. Said folds terminate in tongues —i— which are disposed to engage the inner face of the end bar —a— of the screen-frame to limit the outward movement of the supplemental frame —B—, into which direction the said frame is automatically moved by means of suitable springs —l— which may be either of the spiral type as shown or any other well known form.

It will be observed that my invention produces an inexpensive adjustable screen, inasmuch as the L-shaped bars —a— and the metal straps —d—d— can be obtained ready made. The U-shaped slits —b—b— and the slots —e—e— are easily cut in said members by means of suitable dies. The bars —a— overlap at their ends and are easily and rigidly secured thereat by means of either rivets or solder, or other suitable devices. The supplemental frame —B— is also readily formed from a blank of sheet metal, by bending the marginal portions at the top, bottom and one side of said blank at right angles to the main portion thereof.

—o— denotes a depression in the plane of the plate —f— to serve as a handle for pushing the supplemental frame —B— toward the frame —A— to allow the screen to be removed from the window.

What I claim as my invention is:

1. As an improved article of manufacture, a screen-frame composed of sheet metal bars formed L-shaped in cross-section, and a movable supplemental side frame formed in one piece of sheet metal and consisting of a plate extending across the end portion of the screen-frame and having its margins formed with a side wall and top and bottom flanges, said flanges being formed with inward folds engaging the free edges of the top and bottom bars of the screen-frame and the inner faces thereof as set forth.

2. As an improved article of manufacture, a screen-frame composed of sheet metal bars formed L-shaped in cross-section, and a movable supplemental side frame formed in one piece of sheet metal and consisting of a plate extending across the end portion of the screen-frame and having its margins formed with a side wall and top and bottom flanges, said flanges being formed with inward folds

engaging the free edges of the top and bottom bars of the screen-frame and the inner faces thereof and terminating in tongues disposed to engage the inner face of the end bar of the screen-frame as and for the purpose set forth.

3. As an improved article of manufacture a screen-frame composed of sheet metal bars formed L-shaped in cross-section and having U-shaped slits in the inwardly disposed portions of said bars, straps having transverse slots for receiving through them the U-shaped portions formed by the aforesaid slits and passing through the interposed margins of

the screen, and movable supplemental side frames, each formed in one piece of sheet metal and consisting of a plate extending across the end portion of the screen-frame and having its margins formed with a side wall and top and bottom flanges, said flanges being formed with inward folds engaging the free edges of the top and bottom bars of the screen-frame and the inner faces thereof as set forth.

FRANK C. FERGUSON. [L. S.]

Witnesses:

JERRY F. CONNOR,
ADOLF SANDERS.