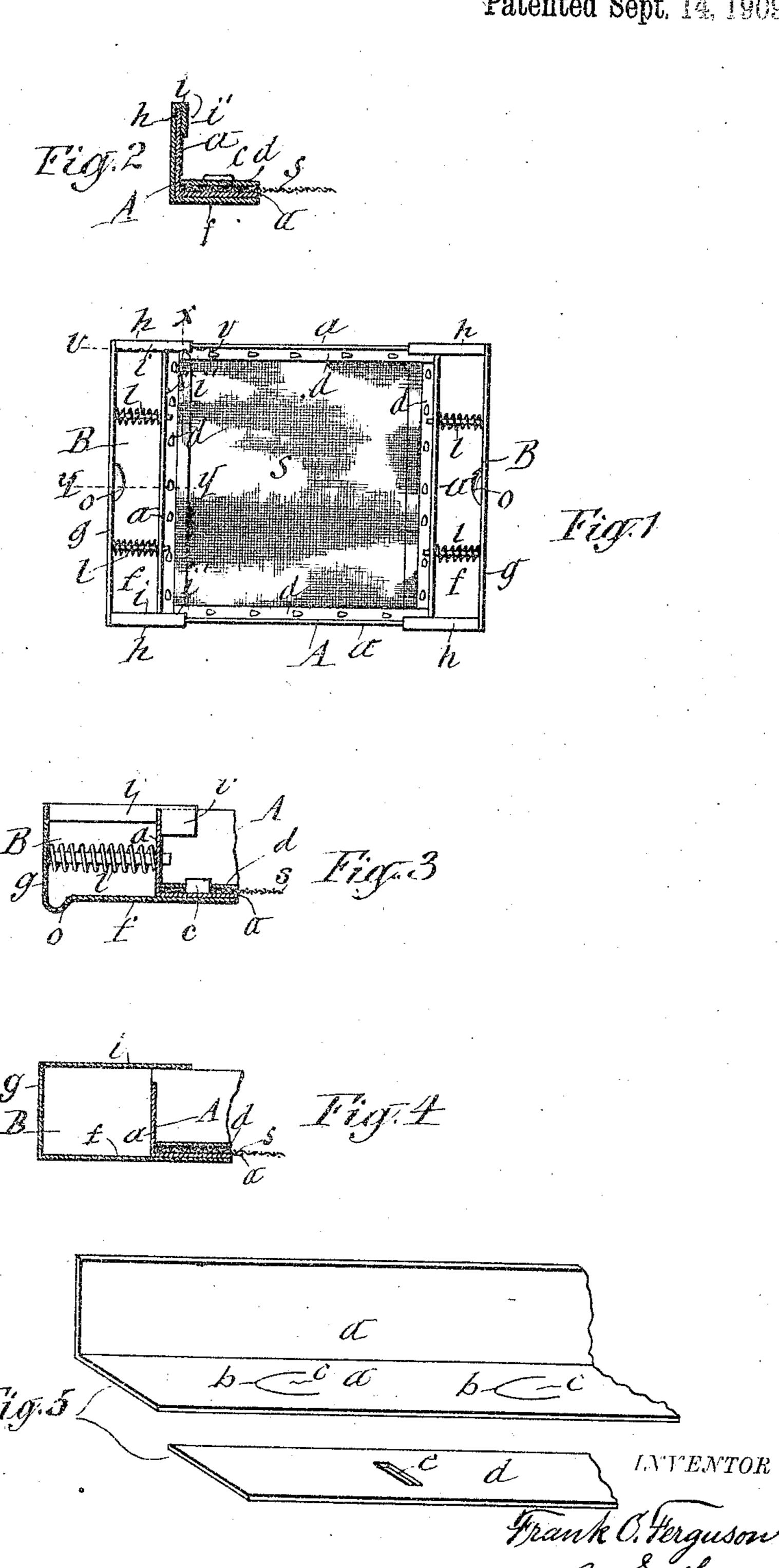
F. C. FERGUSON.

WINDOW SCREEN.

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Patented Sept. 14, 1909.



WITNESSES:

UNITED STATES PATENT OFFICE.

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To all whom it may concern:

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 15 the cost of manufacturing the same. And to that end the invention consists in the novel construction of the screen-frames here-

in described and claimed.

In the accompanying drawings Figure 1 is 20 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-25 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 cor-

responding 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 draw-135 ings. 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—a—rest 40 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 $_{45}$ —A— by means of the tongues —c—c being bent from the plane of the bars—a—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 50 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 por-.55 tions of the screen-frame and having its margins formed in the shape of a side wall i

-g—, and flanges —h—, which extend along Be it known that I, Frank C. Ferguson, the exterior of the frame —A— and are a citizen of the United States, and resident formed with inward folds —i— which enof Oneida, in the county of Madison, in the gage the free edges of the top and bottom 60 5 State of New York, have invented new and bars —a—a— of the screen-frame and the useful Improvements in Window-Screens, of inner faces of said bars. Said folds termiwhich the following, taken in connection nate in tongues —i'— which are disposed to with the accompanying drawings, is a full, engage the inner face of the end bar —a of the screen-frame to limit the outward 65 movement of the supplemental frame —B—, into which direction the said frame is automatically moved by means of suitable springs 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—a— and the metal straps -d-d—can be obtained ready made. The U-shaped slits -b-b-75and the slots --e-e- are easily cut in said members by means of suitable dies. The bars—a—a— overlap at their ends and are easily and rigidly secured thereat by means of either rivets or solder, or other suitable 80 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. 85

--o-denotes a depression in the plane of the plate —f— to serve as a handle for pushing the supplemental frame -Btoward 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 25 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 100 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 105 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 110 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 10 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 15 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 20 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.