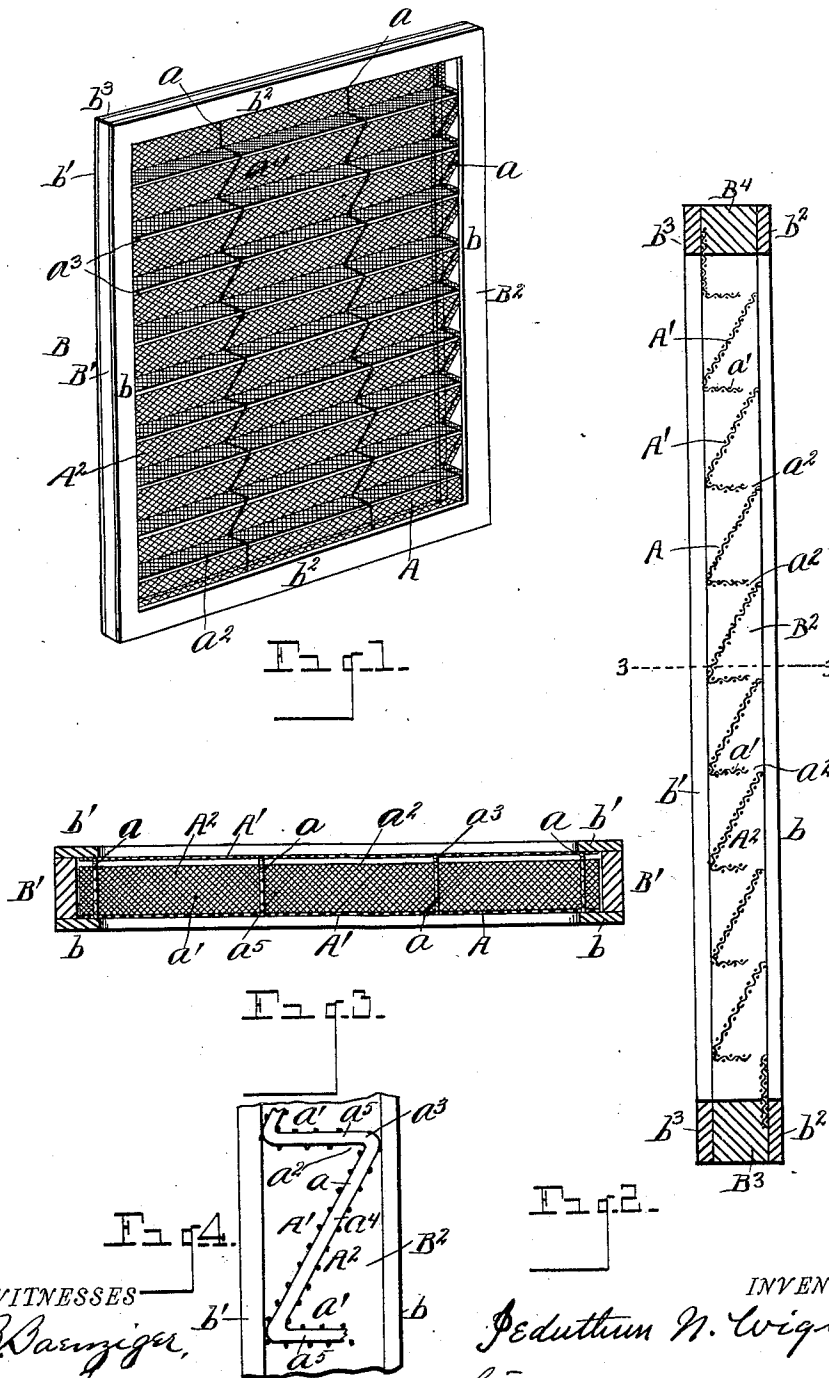


(No Model.)

J. N. WIGLE.
FLY SCREEN FOR WINDOWS.

No. 579,730.

Patented Mar. 30, 1897.



WITNESSES

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JEDUTHUN N. WIGLE, OF RUTHVEN, CANADA, ASSIGNOR OF ONE-HALF TO
WILLIAM DRAKE WIGLE, OF SAME PLACE.

FLY-SCREEN FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 579,730, dated March 30, 1897.

Application filed May 2, 1896. Serial No. 589,971. (No model.)

To all whom it may concern:

Be it known that I, JEDUTHUN N. WIGLE, a subject of the Queen of Great Britain, residing at Ruthven, county of Essex, Province of Ontario, Canada, have invented a certain new and useful Improvement in a Fly-Screen for Windows; and I declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention has for its object a fly-screen for windows of novel construction and superior efficiency and also the process of constructing the same, whereby flies may readily escape through the screen from the inside of a room and whereby they may be prevented from entering a room therethrough.

My invention consists of the structure hereinafter described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a view in perspective of my improved screen. Fig. 2 is a vertical cross-section thereof, the stiffening-wires *a* being omitted. Fig. 3 is a horizontal section on the line 3 3, Fig. 2. Fig. 4 is a detail view showing a portion of the screen fabric in vertical section adjacent to one of the stiffening-wires.

The main feature of my invention is in the construction of the screen fabric, my invention contemplating the employment of any suitable frame, although that shown in the drawings is a construction desirable and preferable for many purposes. I do not, however, limit myself solely to any specific construction of the frame.

In the drawings, A represents my improved screen fabric, preferably constructed of wire-netting *A*², having integrally interwoven therewith stiffening wires or rods *a* of suitable size to afford firmness to the fabric and to hold the fabric in position in a strong and efficient manner. This fabric A, with the stiffening wires or rods *a*, is preferably woven in the flat and afterward crimped or corrugated, as shown in the drawings, forming vertically-inclined portions *A'* and connecting portions *a'*, which may be horizontal, as shown, or oth-

erwise shaped, if preferred. After the fabric has thus been crimped or corrugated the outer edges of the wire-netting, with the exception of the stiffening-wires *a*, adjacent to the upper edge of each inclined portion *A'*, is slitted or cut through to form elongated openings *a*². The stiffening wires or rods *a* extend across said openings *a*², as indicated at *a*³, to hold the screen fabric firmly in place. The wire-netting, with the exception of the stiffening-rods *a*, is thus cut into a series of vertically-inclined portions *A'* with the integral portions *a'* connected therewith. A screen fabric thus made, with the stiffening-wires *a* integrally interwoven in the fabric, then crimped or corrugated, and afterward slitted, as described, may be easily and economically constructed. Any number of stiffening-wires *a* may be employed.

It will readily be seen that flies alighting on the inside of the vertically-inclined portions *A'* of the screen, moving upward, will readily pass out through the adjacent opening *a*², while the location and arrangement of said openings will tend to prevent the flies from entering therethrough from the exterior. A fly passing upward on the outside of one of the vertically-inclined portions *A'* would, as is well known of the habits of the fly, pass across the adjacent opening *a*² upon the adjacent portion *a'*, and so on, instead of turning down through the adjacent opening *a*². The stiffening-wires *a*, when the fabric is crimped or corrugated, are formed into vertically-inclined portions *a*⁴ and integral connecting portions *a*⁵.

B represents a frame with which the screen fabric is engaged. Said frame may either be made rigid or expansible, as may be desired.

As shown in the drawings, the vertical bars *B*¹ *B*² of said frame are provided with strips of molding *b* and *b'* on both its edges, forming a channel between said moldings of sufficient width to take in the lateral corrugated edges of the fabric, said moldings concealing the edges of the fabric. The moldings may set so snugly against the edges of the fabric as to hold the fabric firmly in place. The upper and lower bars *B*³ *B*⁴ of said frame are also preferably provided with strips of mold-

ing $b^2 b^3$ on the front and rear faces thereof, which serve to hold the upper and lower edges of the screen fabric in place.

What I claim as my invention is—

- 5 1. In a screen, a fabric formed of netting, having a series of vertical rigid stiffening wires or rods integrally interwoven therewith, said netting and stiffening wires transversely
10 crimped or corrugated, the netting being slitted at the outer edges of the corrugations thereof from side to side of the fabric to form continuous openings extending across the fabric, and severing the wire-netting into a series of independent transverse portions,
15 said crimped stiffening wires or rods connecting and supporting the severed portions of the fabric on both sides of each of said slits or openings, and holding said severed portions rigidly together, substantially as set forth.
- 20 2. In a screen, a fabric constructed of wire-netting having a series of vertical stiffening wires or rods integrally interwoven therewith, said netting and stiffening-wires transversely crimped or corrugated, the wire-netting at
25 both sides of said vertical stiffening-rods being slitted at the outer edges of the corrugations from side to side of the fabric to form continuous transverse openings, and multiple independent transverse vertically-inclined
30 portions A' and adjacent outwardly-projecting portions a' , said stiffening-rods holding the several independent transverse portions of the wire-netting together, for the purpose set forth.
- 35 3. In a screen, a fabric constructed of wire-netting, provided with vertical rigid stiffening wires or rods, said netting together with said stiffening-wires being both crimped or corrugated, forming a series of transverse ver-
40 tically-inclined portions A' , and integral horizontal portions a' , said wire-netting being slit-

ted laterally at the outer edges of the horizontal portions from side to side of the fabric, to form continuous transverse openings, and severing the wire-netting into a series of independent parts, said stiffening-rods connect- 45 ing the adjacent portions of the screen on opposite sides of said openings, and a frame constructed of upright and horizontal portions, having moldings secured thereto on opposite sides thereof, said moldings forming 50 channels on the upright portions of the frame intermediate said moldings to receive the lateral edges of the fabric, said moldings contacting with the horizontal portions a' of the fabric to bind the fabric in place, for the purpose set forth. 55

4. In a screen, the combination of a fabric constructed of wire-netting having a series of vertical stiffening wires or rods integrally interwoven therewith, said netting and said stiffening-wires transversely corrugated to form vertically and forwardly inclined portions and substantially horizontal portions both of the wire-netting and of the stiffening- 65 wires, the wire-netting being slitted at the outer edges of the horizontal portions from side to side of the netting to form continuous transverse openings and severing the wire-netting into a series of independent trans- 70 verse strips, said strips held together in position by said stiffening-wires, the horizontal portions of the wire-netting supported upon the horizontal portions of the stiffening-wires, substantially as set forth. 75

In testimony whereof I sign this specification in the presence of two witnesses.

JEDUTHUN N. WIGLE.

Witnesses:

N. S. WRIGHT,
O. B. BAENZIGER.