Oct. 21, 1924. 1,512,853

A. O. LOWER

SCREEN DOOR AND SCREEN GUARD THEREFOR

Filed Sept. 12, 1923

Fig. 1.

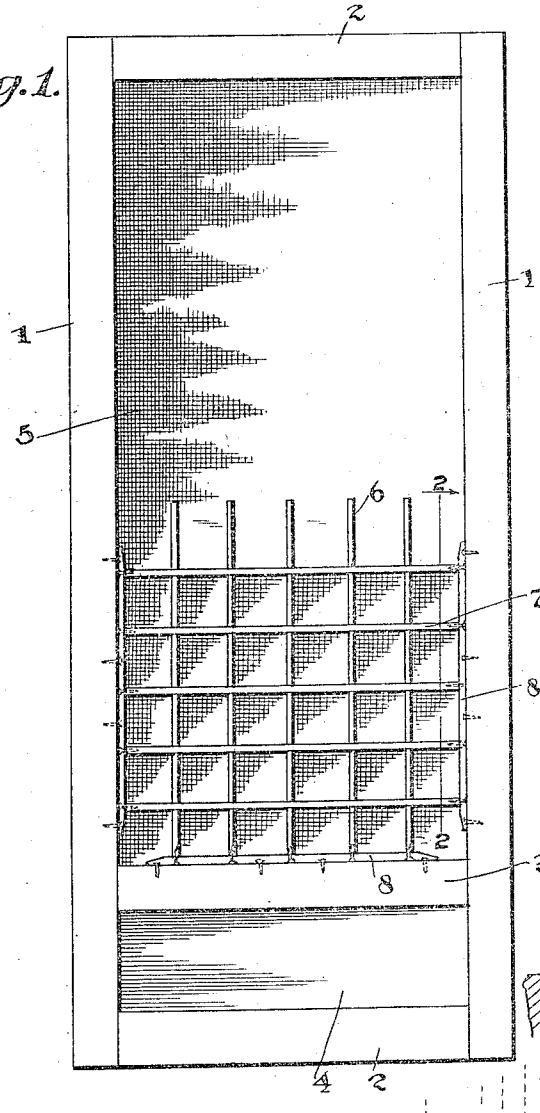


Fig. 2.

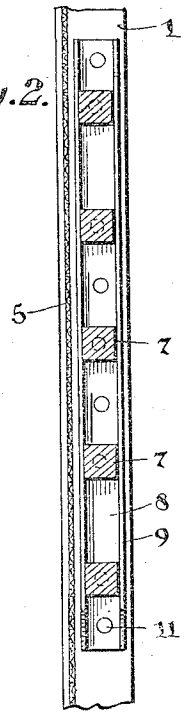


Fig. 3.

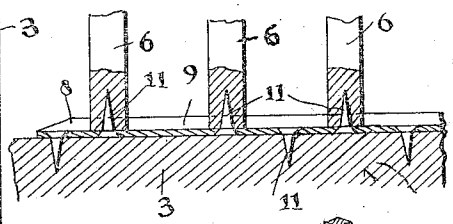


Fig. 5.

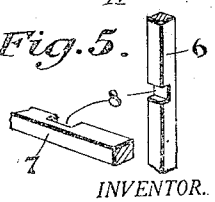
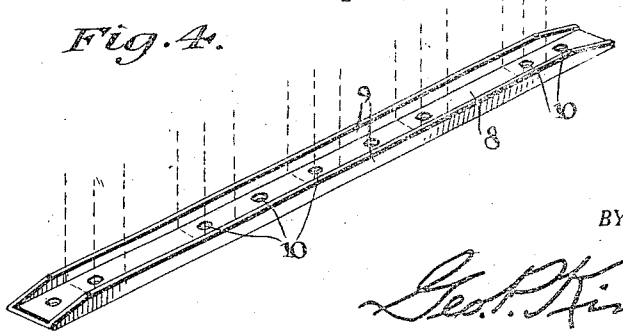


Fig. 4.



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UNITED STATES PATENT OFFICE.

ALBERT O. LOWER, OF COSHOCTON, OHIO.

SCREEN DOOR AND SCREEN GUARD THEREFOR.

Application filed September 12, 1923. Serial No. 662,295.

To all whom it may concern:

Be it known that I, ALBERT O. LOWER, a citizen of the United States, residing at Coshocton, in the county of Coshocton and State of Ohio, have invented certain new and useful Improvements in Screen Doors and Screen Guards Therefor, of which the following is a specification.

This invention relates to screen doors, and has for its object the provision, in a manner as hereinafter set forth, of a door having at its lower end a protective lattice, for guarding the screen against any injury which might result from a blow or by children pushing against the screen while attempting to open the door.

Another object is the provision, in a manner as hereinafter set forth, of an improved means for securing the lattice between the inner side edges of the frame of a screen door.

Another object is the provision, in a manner as hereinafter set forth, of a screen door provided with a protective lattice at its lower end which will be attractive, light, strong and inexpensive to manufacture.

The invention will be best understood from a consideration of the following detailed description taken in connection with the accompanying drawings forming a part of this specification, with the understanding that the invention is not confined to any strict conformity with the showing of the drawings but may be changed and modified so long as such changes and modifications mark no material departure from the salient features of the invention as expressed in the appended claim.

In the drawings:—

Figure 1 is a front view of a screen door and protective lattice embodying this invention.

Figure 2 is a section on line 2—2 of Fig. 1.

Fig. 3 is a detail partly in section of the securing means.

Fig. 4 is a plan view of one of the securing plates.

Fig. 5 is a detail perspective showing the method by which the lattice strips are joined together.

Referring now to the drawing in detail, wherein like numerals of reference designate corresponding parts throughout the several views, a screen door, in accordance with this invention comprising a body portion in the form of a frame formed of a pair of side rails 1 and the upper and lower cross rails 2, is shown. Intermediate the center and the lower end of the door is a cross connecting bar 3, the space to the lower bar 2 being closed by a solid panel 4, and the upper space having therein the foraminous panel 5.

Supported between the bars 1, upon the cross bar 3, is a lattice formed of vertical and horizontal slats 6 and 7, protecting the lower portion of the foraminous panel against injury. The contacting faces of each of the slats of this lattice are cut out as at 8, allowing them to be securely locked together to form a strong structure.

In order to securely retain the lattice firmly in position I have provided attaching members along the inner edge of each side rail and along the top edge of the cross bar 3. These members consist of shallow metallic channels 8 having the channel side toward the lattice to receive therein between the sides 9, their respective ends of the slats 6 and 7. These channels are provided with a plurality of apertures 10 to allow for the passage of screws 11. As is clearly shown in Figure 3, screws are passed from one side of the channel into the ends of the slats to secure the channels to the lattice, and then after the lattice with the attached channels is positioned upon the cross bar 3, between the rails 1, screws are passed in the opposite direction through the remaining apertures into the frame of the door, thus securing the lattice firmly in position to protect the screen panel 5.

Having thus described the invention, what is claimed as new is:—

In a screen door guard, a lattice having interlocked vertically and horizontally arranged slats, a vertically positioned substantially elongated channel member upon each side of said lattice, the ends of said horizontal slats being positioned in the channel of the member, a horizontal substantially elongated channel member at the lower side of said lattice, the ends of said vertical slats being positioned in the channel of the horizontal member, and means engaging said channel whereby the lattice may be secured within the frame of a screen door for protection of the screen.

In testimony whereof, I affix my signature hereto.

ALBERT O. LOWER.