S. G. Cabell,

Window Shutter,

No. 59,553, Patented Nov. 13, 1866.

Fig. 3.

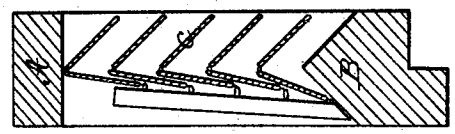


Fig. 2.

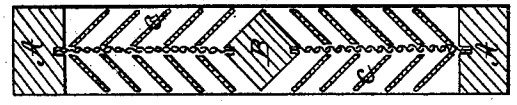
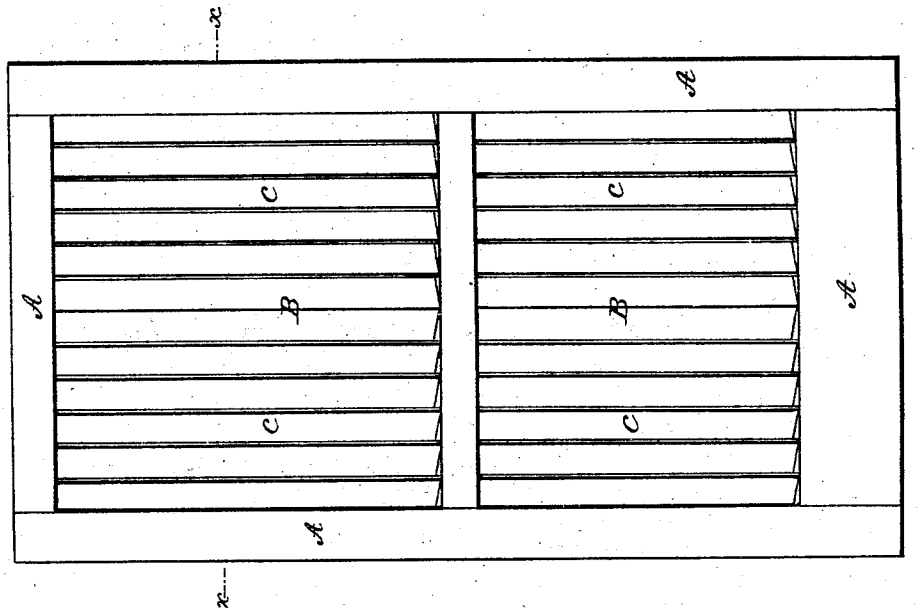


Fig. 1



Witnesses:

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Sydney E. Smith

Inventor:

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UNITED STATES PATENT OFFICE.

SAMUEL G. CABELL, OF QUINCY, ILLINOIS.

IMPROVEMENT IN DOORS AND SHUTTERS.

Specification forming part of Letters Patent No. **59,553**, dated November 13, 1866.

To all whom it may concern:

Be it known that I, SAMUEL G. CABELL, of Quincy, in Adams county and State of Illinois, have invented certain new and useful Improvements in Slatted Doors and Window-Shutters; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings through letters of reference marked thereon, forming part of this specification, in which—

Figure 1 represents a front elevation of the door having all the slats fixed or stationary. Fig. 2 is a cross or horizontal section of the same on the line *x x* of Fig. 1. Fig. 3 is a similar section, showing the inner side slats pivoted and closed.

The same letters of reference occurring on the several figures indicate corresponding parts.

My invention relates to the construction of slatted doors and shutters used for the purpose of inclosure, yet admitting of a free circulation of air.

All such doors as heretofore constructed not only admit air, but on one side they can be seen through for a given distance over the floor of a room, and from the other side the upper portion of the adjoining apartment is exposed to view. Thus, although the door may be closed, there is no privacy.

The object of my invention is to secure that privacy without obstructing the passage of air, and at the same time to guard against the admission of bugs, moths, &c., that are so annoying in a lighted room in seasons when it is desirable to have free ventilation; and it consists in constructing and arranging the slats in the form of V's, slightly overlapping each other, and in the introduction of a sheet of woven wire-cloth on the center line of the V's, for the obstruction of insects, thus forming an effectual barrier against them, as well as light and vision, without materially obstructing ventilation.

To enable others to make and use my invention, I will proceed to describe its construction and operation by referring to the drawings, in which—

A represents the ordinary framing of a door or shutter, and B the central vertical stile, arranged angularly with regard to the outside framing, on either side of which is a series of vertical slats, C, set in the form of V's, the open vertical side of each slightly overlapping the angle of the next one, and those next to and on each side of the center stile overlapping its angle in like manner, and the angle of the outermost V set in close contact with the side frame, A, which, if desired, might be slightly channeled to receive it.

The outer half of the bottom rail of the frame should, if used for a shutter or outer door, be beveled on its upper side to shed off the wet, as also should the cross-stiles, if any are used.

The slats of the V's may be mortised into the framing, and thus held stationary at or about a right angle; or they may be pivoted, so as to be closed or opened at pleasure on one or both sides of the door, as desired.

Between the inner and outer range of slats intersecting the angles of the V's, on a plane with the center of the door, I insert a sheet of woven wire in each panel, sufficiently fine to exclude bugs, moths, and other insects which intrude and are very annoying in a lighted room.

Thus it will be seen that by the use of doors and shutters constructed on this plan all the benefits of free ventilation are obtained, while the annoyance of being overlooked or of being disturbed by insects is avoided, and that the invention is applicable for doors and shutters of the state-rooms of steam and other vessels, for railroad-cars, offices, and dwellings.

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

1. The arrangement of slats in the panels of a door or shutter, either stationary or pivoted, so that they may form a series of V's slightly overlapping each other, substantially as and for the purpose set forth.

2. In combination with the V-shaped slats *c*, the arrangement of woven wire inserted on a plane with the frame of the door or shutter, and intersecting the angles of the slats, substantially as herein specified.

S. G. CABELL.

Witnesses:
C. M. VANDERVOORT,
N. H. VANZANDT.