

(No Model.)

J. L. MAC DONALD.

GUARD FOR DOORS AND WINDOWS.

No. 253,732.

Patented Feb. 14, 1882.

Fig. 1.

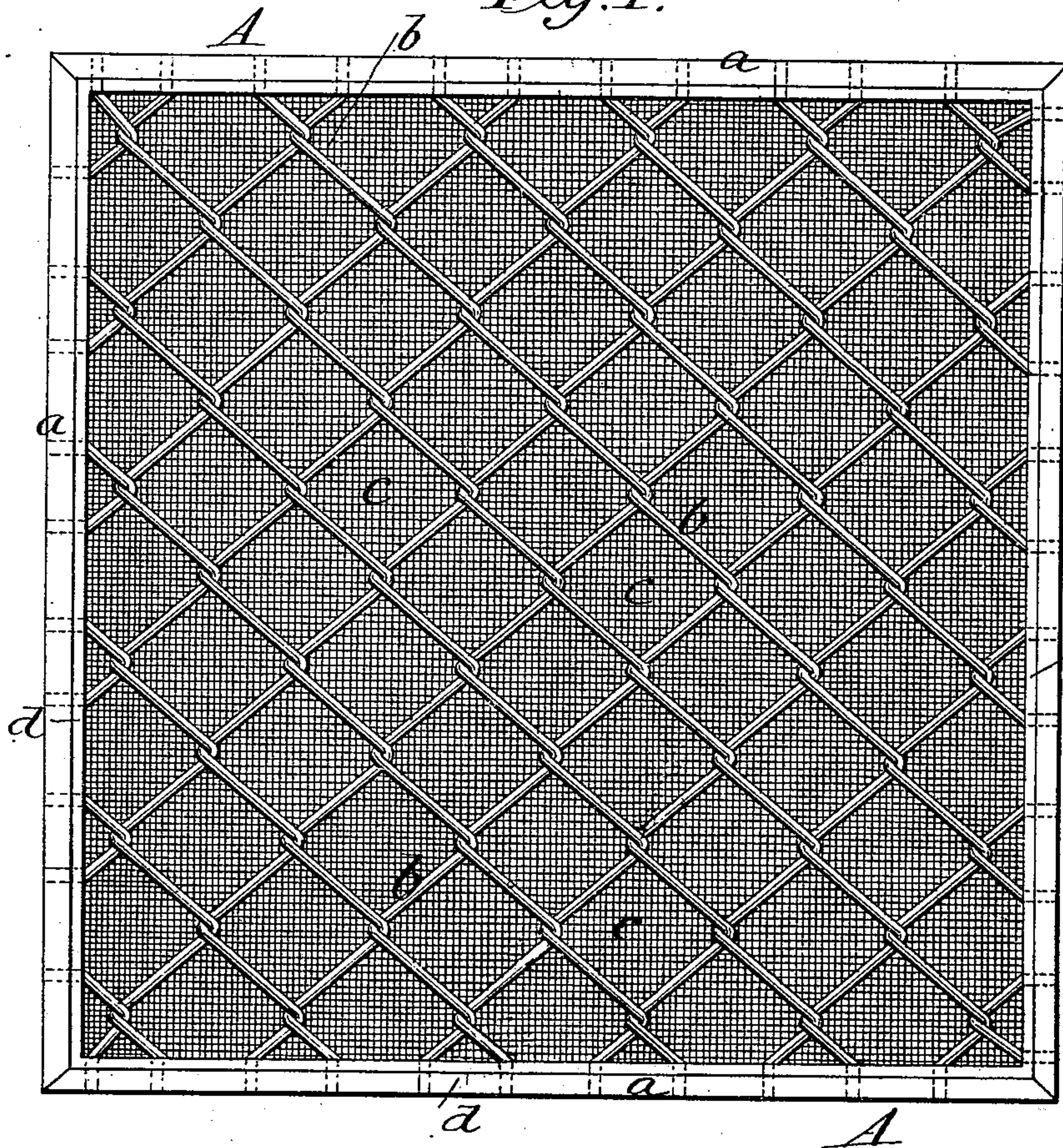


Fig. 2.

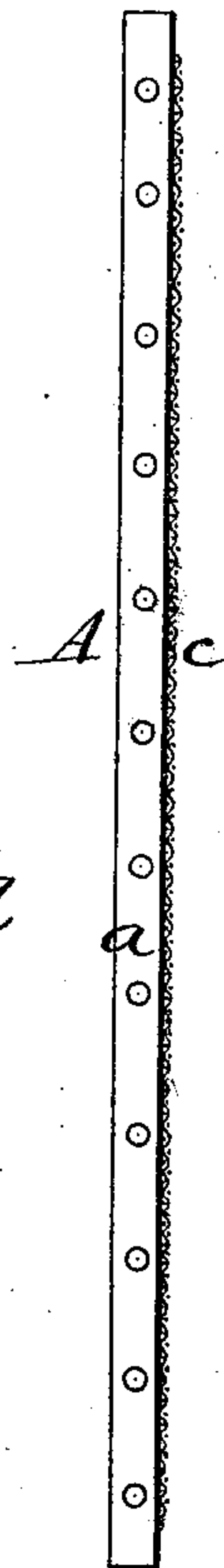
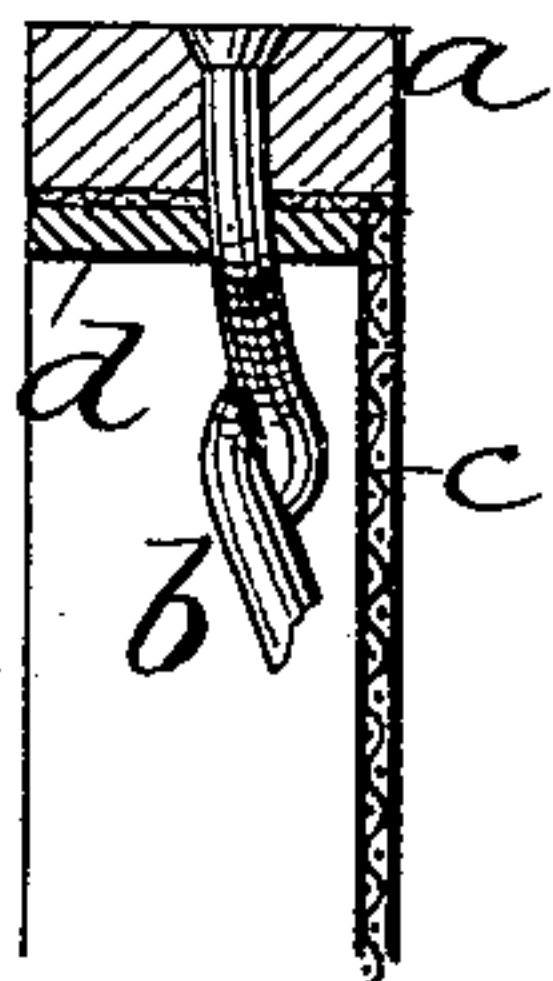


Fig. 3.



Attest.

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UNITED STATES PATENT OFFICE.

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GUARD FOR DOORS AND WINDOWS.

SPECIFICATION forming part of Letters Patent No. 253,732, dated February 14, 1882.

Application filed October 1, 1881. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. MACDONALD, of Shakopee, in the county of Scott and State of Minnesota, have invented certain Improvements in Guards for Doors, Windows, and other Openings, of which the following is a specification.

My invention relates to a combined burglar and insect guard for windows, doors, and like openings; and it consists in a suitable framing provided with a screen of gauze or like material, and a heavier guard of coarse wire-netting, metal rods, or other strong material, whereby the opening is protected against both insects and burglars, and the heavier netting or guard is caused to support the lighter one.

Guards for doors, windows, &c., have hitherto been of two classes—viz., light gauze or equivalent material to exclude insects, and heavy wire-netting, metal rods, or bars to exclude burglars. Neither of these devices could serve the purposes of the other; but, on the contrary, each would in a greater or less degree interfere with and in many cases preclude the use of the other. By my invention, however, the two may be advantageously used together in all places where either can be used alone, and the one is made to protect and sustain the other.

Referring now to the drawings, Figure 1 represents a face view of my improved guard in its preferred form; Fig. 2, an edge view of the same; Fig. 3, a cross-section, showing one manner of securing the netting and gauze in the frame.

The invention is susceptible of various modifications as to the details of securing the parts together and in place, materials used, &c.; and it consists broadly in the combination of the light and heavy screens in a common frame, thus forming a single complete article capable of being handled, stored, sold, and applied as a single complete and finished guard.

Referring again to the drawings, which represent the preferred form of my invention, A indicates the guard as a whole, composed of an outer frame, *a*, heavy wire-netting *b*, and gauze screen *c*. This gauze *c* has its edges bent or folded against the inner face of frame *a*, in which position the edges are held by a strip,

d, and the netting *b* is secured in the frame by having its ends carried through holes or perforations in the strip *d* and frame *a*, and headed down on the outside, this arrangement also serving to retain the strips *d* in place without the use of special rivets therefor, which may, however, be used, if preferred. Instead of the construction shown and described, however, a rabbeted frame may be used, and the edges of both the coarse and fine screens secured therein by strips drawn firmly to their seat in the rabbet and upon said edges by screws or rivets, or the edges may be clamped between the parts of a double frame, or equivalent constructions may be employed, many of which will readily suggest themselves or are already known to the skilled mechanic. By employing the wire-netting, bars, or equivalent strong guard the admission of light and air is not materially interfered with, while at the same time ample protection is afforded.

It is well known that where wire-gauze, mosquito-netting, or similar screens are used alone they soon become pressed out of shape, or are otherwise disfigured and injured by pressure against them. The heavier screen in my guard prevents such injury and serves to support and protect the lighter one.

The gauze or finer screen may be, if desired, inclosed between two heavier screens, and thus more perfectly protected.

The guard thus constructed may be applied to doors, windows, or other openings in any of the well-known ways of applying guards of the ordinary construction, or may be framed into the same at the time of building.

It is apparent that instead of wire-gauze any analogous material may be employed, provided it is of suitable fineness to exclude insects. It is, however, preferred to employ wire-gauze, for the reason that it does not exclude light or air to any considerable degree, and is cheap, neat, and durable.

While heavy crimped or twisted wire-netting is preferred for the heavier or burglar guard, it will be seen that other analogous screen or guarding material may be used.

I am aware that wire-netting has been placed between the panels of a double-paneled window-blind, and this I do not claim. As the

primary use of window-blinds is to exclude the light, and as the next important purpose is to act as a guard against the elements, more than one-half their area being at all times and in all cases closed to the passage of air and light, it will be seen that they cannot serve the purpose of my invention. By opening the blinds to admit light and air all advantage of the wire-netting is lost. My guard is designed to be used either independently of or in addition to window-blinds, and in many places where blinds could not be applied. It constitutes an article of manufacture complete in itself, to be sold to the trade as such, and is entirely distinct from the window-blinds.

Having thus described my invention, what I claim is—

1. As an improved article of manufacture, a

guard for doors, windows, and other openings, provided with a fine screen to exclude insects, and with a heavy wire guard to exclude burglars, substantially as set forth.

2. The improved article of manufacture consisting of a frame adapted to fill and to be permanently secured within a window or like opening, and furnished with a heavy open-work guard adapted to exclude burglars without materially excluding the light, and a fine screen to exclude insects, substantially as described.

3. The guard consisting of frame *a*, netting *b*, gauze *c*, and strip *d*, combined as set forth.

JOHN L. MACDONALD.

Witnesses:

M. K. MARRINAN,
JOHN MURRAY.