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C. C. ENGELBART

DRAINAGE DEVICE FOR WINDOW SCREENS

Filed Nov. 15, 1926

Fig. 1.

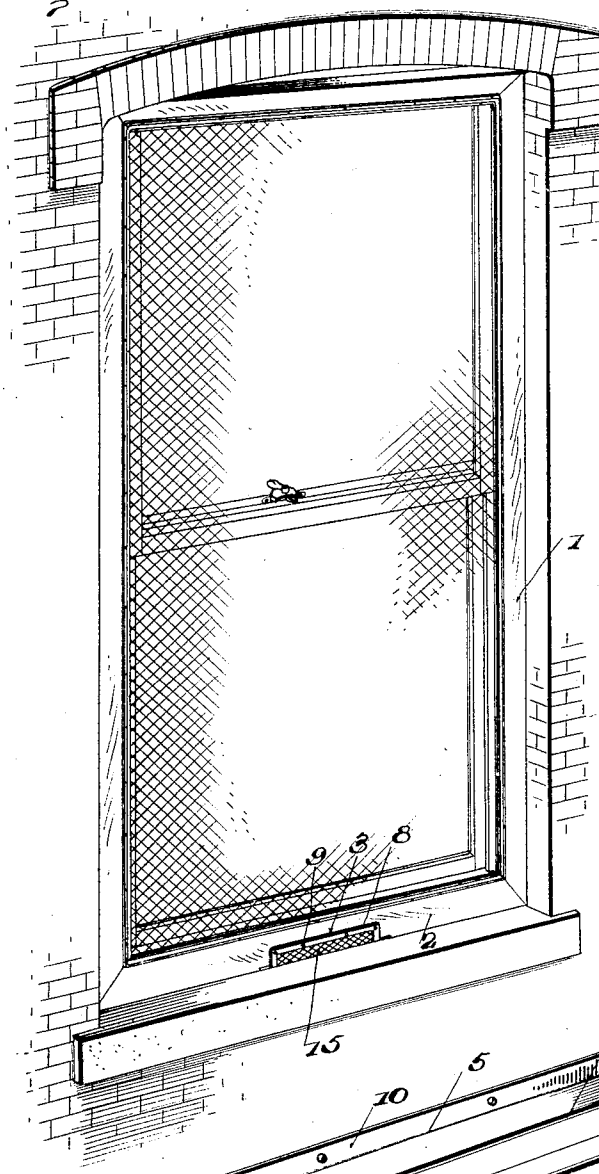
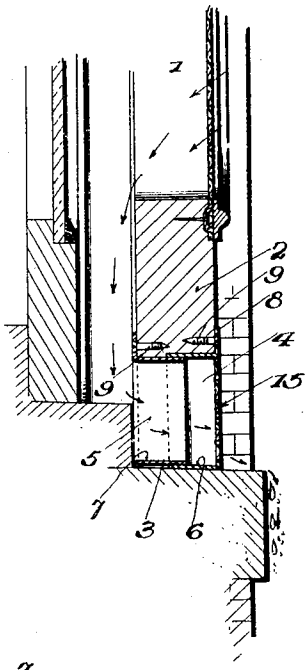


Fig. 2.



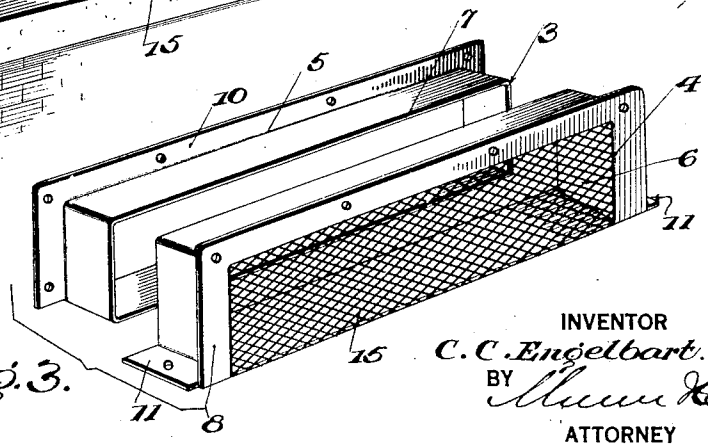


Fig. 3.

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UNITED STATES PATENT OFFICE.

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DRAINAGE DEVICE FOR WINDOW SCREENS.

Application filed November 15, 1926. Serial No. 148,516.

This invention relates in general to window screens and more particularly to a drainage device for window screens whereby the rain or moisture forced through the screen will drain out to the exterior of the building and will not find its way into the house or dwelling and thereby cause damage.

One of the principal objects of the present invention is to provide a device of this character which is of simple and durable construction and adapted to be manufactured at a comparatively slight expense from materials and by means of facilities ordinarily available and which is adjustable to fit frames of various thicknesses and which is also of such a character as to so strengthen and brace the frame as to enhance the strength and rigidity thereof.

A further object is to provide a device having these advantages and capacities and which when organized with the frame of the screen is not liable to become disassociated therefrom even after long exposure to the weather.

Other objects and advantages reside in certain novel features of the construction, arrangement and combination of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, reference being had to the accompanying drawing forming a part of this specification, and in which:

Figure 1 is a perspective view showing a window screen with a drainage device embodying the present invention incorporated therein,

Figure 2 is a vertical sectional view through the lower portion of the screen frame in which the drainage device is incorporated, and

Figure 3 is a group view in perspective showing parts of the drainage device prior to assembly with the screen frame.

Referring to the drawings the numeral 1 designates generally a window screen and the numeral 2 designates the lower bar of the usual wooden frame of the screen.

The present invention proposes the provision of a drainage device, designated generally at 3, the drainage device being incorporated in a notch or opening provided therefor in the lower portion of the bar 2 of the screen frame. As shown in Figures 2 and 3 the drainage device 3 comprises a pair of sections, there being an outer section, designated generally at 4 and an inner section, designated generally at 5. These sections 4 and 5 are of similar construction and include tubular body portions, designated at 6 and 7, respectively. The body portions 6 and 7 are preferably although not necessarily of elongated rectangular form and are designed to telescope in the assembly, the tubular body portion 7 being snugly and slidably fitted within the tubular body portion 6. By adjusting the body portions 6 and 7 one within the other the device may be adapted for use with screen frames of various thicknesses. The outer marginal edges of the top and end walls of the body portion 6 have integrally formed therewith or otherwise suitably connected thereto outturned marginal attaching flanges 8, the attaching flanges 8 being apertured to permit of the use of screws 9 or other suitable fastening devices for securing the part 4 in position. Similarly the part 7 has the inner marginal edges of the top and side walls of its body portion formed with outturned attaching flanges 10, the attaching flanges 10 also being apertured for the reception of screws or the like. In addition to the flanges 8 the body portion 6 of the part 4 has attaching lugs 11 which project outwardly from its ends in the plane of its bottom wall. The attaching plates 11 also have openings designed to receive screws or the like. The outer section or part 4 has its opening covered by a screen 15 which is preferably located in the plane of the flanges 8 and which is welded, soldered, or otherwise suitably fastened to the part 4.

With this construction although the lower bar 2 is initially weakened by the notching necessary to receive the drainage device this bar is braced and strengthened by the drainage device when it is positioned and snugly fitted in the notch and the bar is further strengthened by the action of the attaching flanges 10 and attaching lugs 11. The manner in which the drainage device is assembled with the bar of the frame precludes the possibility of its being disassociated therefrom even after long exposure to the weather.

I claim:—

1. A drainage device for use with window screens having a frame including a lower bar provided with a notch opening through the lower edge thereof and comprising an outer and inner section, each section having a tubular body, the tubular bodies being telescoped in assembly, said tubular bodies snugly fitting the notch, attaching flanges formed at the outer sides of

said tubular bodies and with the upper side and opposite end edges thereof and adapted to coact with screws to permanently secure the drainage device to the screen frame, outturned flanges formed at the lower sides of the opposite ends of the outer of said tubular bodies for engagement with the lower edge of the lower bar of the screen frame and to either side of said notch, said flanges being apertured to receive securing screws, and a screen covering the opening of the outer tubular body, the telescopic portion of the outer of said sections engaging over the telescopic portion of the inner of said sections, whereby to facilitate the drainage outwardly of the device.

2. In combination a window screen frame having a rectangular recess in its lower bar which extends entirely through the bar from its outer to its inner face, a pair of rectangular telescopic members insertable from the opposite faces of the bar into telescopic engagement, a lateral marginal flange formed on the outer face of each section and detachably connected to the bar, and a reticulated element extending across the outer face of one of such telescopic members.

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