June 17, 1947. F. L. HAWKINS ET AL 2,422,547

BURGLAR BAR

Filed Oct. 6, 1945 2 Sheets-Sheet 1

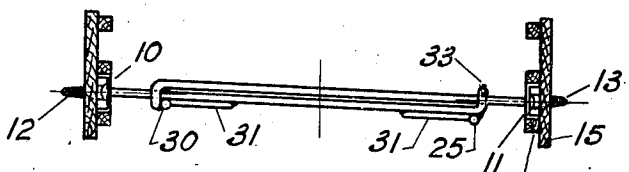


Fig.-1

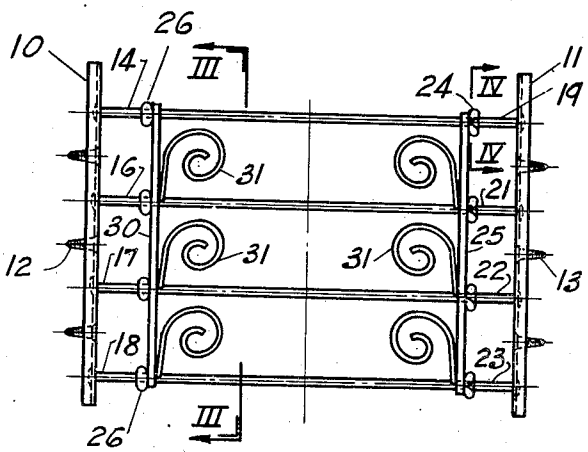


Fig.-2

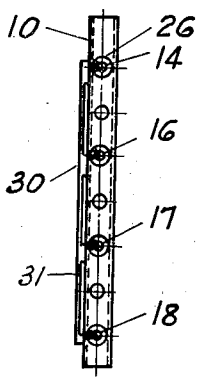


Fig.-3

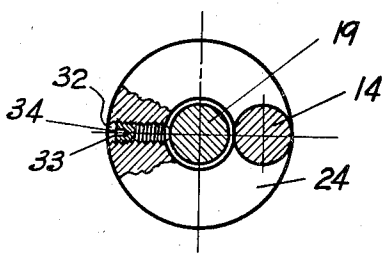


Fig.-4

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BURGLAR BAR

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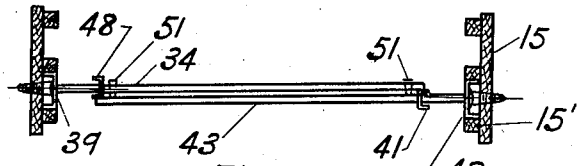


Fig.-5

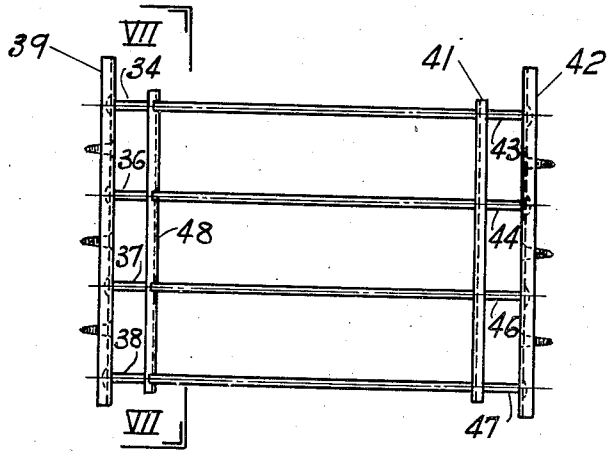


Fig.-6

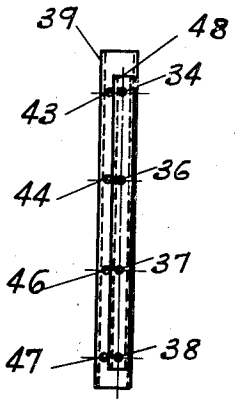


Fig.-7

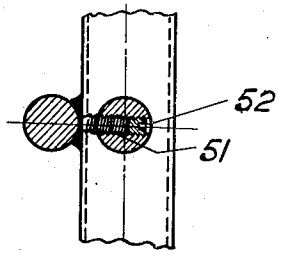


Fig.-8

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BURGLAR BAR

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8 Claims. (Cl. 160—223)

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This invention relates to that type of window guard employed to impede the entrance of pilferers into a residence, commonly known as burglar bars, and has for an object the provision of an article of manufacture of the character designated which shall be simple and rugged of construction, readily mounted in position in a window and in which shall be adjustable whereby it may be installed in various sizes of windows.

A further object of our invention is to provide burglar bars which shall be adjustable as to width and held in adjusted position by concealed securing means accessible only from the interior of the room in which they are installed, and which may be readily removed whenever desired, as for cleaning or painting.

A still further object of our invention is to provide burglar bars which shall be adjusted as to width and which shall include ornamental grill work so mounted thereon as to permit adjustment thereof with removal of the grill.

As is well known in the art to which our invention relates, the application of burglar bars to residences and other buildings has heretofore required the manufacture of such articles in a multiplicity of sizes corresponding to the various widths of windows installed in such buildings. This has necessitated the services of a workman to measure the various window openings in a building, then a return to a shop or place of fabrication, to make up, or select suitable sizes of such articles already made up, and taking them to the place of installation. Furthermore, where an ornamental effect was desired, such ornamental designs were necessarily applied to the bars following their assembly.

These and other difficulties are overcome by means of our invention, in which we provide a guard embodying a plurality of pairs of overlapping, relatively, slidable horizontal bars, whereby they are extensible to fit the various sizes of windows. The ends of the bars are secured in side channels which are adapted to be secured in the usual manner in a window frame. An ornamental grill, which may assume various designs may be secured near one end of each of the extensible bars, whereby there is no interference with the grill in adjusting the guard as to width and the ornamental designs maintain their positions in symmetry with the side channels.

Articles embodying features of our invention are illustrated in the accompanying drawing, forming a part of this application, in which

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Fig. 1. is a view looking down on the burglar bar assembly;

Fig. 2 is a front elevational view thereof;

Fig. 3 is a sectional view taken along the line III–III of Fig. 2;

Fig. 4 is a sectional view drawn to an enlarged scale, taken along the line IV—IV of Fig. 2; and

Figs. 5 to 8 inclusive are views similar, respectively, to Figs. 1 to 4 inclusive, showing a modified form of our invention.

Referring now to the drawing, for a better understanding of our invention, we show side channels 10 and 11 which are adapted to be secured to a window frame, such as 15, in the usual manner as by screws 12 and 13. As may be seen in Fig. 1, the channels 10 and 11 fit between the guides 15' of the window frame when installed. Carried by the side channel 10 and appropriately secured thereto are a plurality of transversely extending bars 14, 16, 17 and 18. Similarly, carried by the channel 11 and appropriately secured thereto are cooperating transversely extending bars 19, 21, 22 and 23 which overlap, respectively, the bars 14, 16, 17 and 18. Each of the bars 14, 16, 17 and 18 is provided on its end opposite the channel 11 with a loop 24 which extends around the bar 19. Similarly each of the bars 19, 21, 22 and 23 are provided on its end remote from the channel 10 with a loop 26 which extends around the bar 14 whereby the transversely extending bars are slidable with respect to each other to fit various window openings. Welded to the loops 24 so as to be mounted on the outside of the bars with respect to the opening in which they are mounted is a vertically extending reinforcing rod 25. A similar reinforcing rod 30 is welded to the loops 26, so as to be on the outside of the opening. Ornamental design work 31 may be welded to the vertically extending rods 25 and 30, so as to maintain their positions in symmetry with the sides 10 and 11 as they are adjusted for width.

When the guard has been installed and secured in a window opening, as just described, the pairs of bars are held in fixed relative positions by concealed fastening means which form a very important feature of our invention. Referring to Fig. 4, we show the loop 24 encircling the bar 19. It is assumed that the bar 14 is on the outside of the room in which the guard is installed with respect to the bar 19. On the side of the loop 24 toward the inside of the room, we provide a threaded opening 32 with a set screw 33 which may be screwed down to engage the bar 19. The set screw 33 is preferably of the type having a

socket 34 in the end thereof and is of a length so that when screwed down to engage the bar 19, its outer end is below the surface of the loop 24. If desired, the outer end of the opening 32 may be filled with putty or other suitable filler and painted over after the guard is installed so that the set screw 33 will not be visible. While set screws 33 may be provided in some or all the loops, as described, we prefer as a minimum to place one in the loop 24 of the uppermost bar 19 and one in the loop of the lowermost bar 23. Whenever it is necessary to remove the window guard, the householder, knowing the location of the set screw 33, may clean out the opening 32 and insert a special tool, not shown, fitting in the socket 34 to retract the set screw 33. Such tools are not usually carried by pilferers. Furthermore, with the side channels 10 and 11 fitting between the guides 15', the assembly can not be removed until the set screws 33 are retracted.

Referring now to Figs. 5 to 8 inclusive, we show a modified form of our invention in which transversely extending bars 34, 36, 37 and 38 are secured by any suitable means at one end to a side channel 39 and at their opposite end to a channel 41 as shown in Fig. 5, preferably to the side of the channel and on the inside of the opening. On the other side of the window opening, the side channel 42 has secured thereto transversely extending rods 43, 44, 46 and 47 which pass through spaced openings in the channel 41 so as to be slidable with respect thereto and are joined at their opposite ends on the outside of the window opening to the side of a channel member 48. It will be seen from Fig. 7 the bars 34, 36, 37 and 38 pass through spaced holes in the channel 48 so as to be slidable with respect thereto. The transversely extending bars are thus arranged in overlapping pairs, slidable with respect to each other, as described in the previous modification. They may thus be slidably adjusted to fit various window openings.

When fitted into a window opening, the bars are held in adjusted position by means of a suitable number of set screws 51 which pass through threaded openings 52 in the bars mounted toward the inside of the window openings, so as to be accessible only from the inside of the room in which the guard is installed. In the previous modification, the set screws are intended to pass below the surface of the bar through which they are screwed so that the opening, after the set screws are screwed down, may be filled and painted over and thus be concealed.

With either modification of our invention, the vertically extending rods such as 25 and 30 in Fig. 2 of the drawing and the channels 41 and 48 in Fig. 6 of the drawing are very important in providing rigidity, ease of adjustment, and greater security in holding the bars in adjusted position.

From the foregoing, it will be apparent that we have devised an improved window guard which is simple of construction, easily installed, and which when once installed is held in adjusted position by concealed fastening means which are relatively inaccessible from the outside of the room in which the burglar bar assembly is installed.

While we have shown our invention in but two forms, it will be obvious to those skilled in the art that it is not so limited, but is susceptible of various changes and modifications, without departing from the spirit thereof, and we desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What we claim is:

1. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping horizontal bars oppositely disposed, relatively stationary side members to which the respective remote ends of the pairs of bars are secured, means for holding the free end of each of the bars in overlapping slidable relation with its associated bar, and securing means accessible only from inside the window opening for holding the pairs of bars against relative lateral movement.

2. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping horizontal bars, oppositely disposed relatively stationary side members to which the respective remote ends of the pairs of bars are secured, means for holding the free end of each of the bars in overlapping slidable relation with its associated bar, a pair of vertically extending reinforcing members one secured to the free end of each of the bars extending from one of said side members and the other secured to the free end of each of the bars extending from the other side member, and securing means accessible only from inside the window opening for holding the pairs of bars against relative lateral movement.

3. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping horizontal bars, oppositely disposed relatively stationary side members to which the respective remote ends of the pairs of bars are secured, means for holding the free end of each of the bars in overlapping slidable relation with its associated bar, a pair of vertically extending reinforcing members one secured to the free end of each of the bars extending from one of said side members and the other secured to the free end of each of the bars extending from the other side member, and a set screw extending through at least one of the bars from inside the opening to engage the associated bar.

4. A burglar bar assembly as set forth in claim 2 in which the free end of each bar is provided with a loop encircling its associated bar, and the reinforcing means comprise rods welded to the free ends of the bars.

5. A burglar bar assembly as set forth in claim 2 in which the reinforcing means comprise members welded to the free ends of the bars and having openings therein through which the associated bars pass.

6. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping relatively slidable horizontal bars, oppositely disposed stationary side members to each of which one end of one bar of each overlapping pair is secured, a loop on the free end of each bar encircling the other bar of its pair, the side members being securable to the sides of the window opening, and a set screw extending through at least one of the loops from inside the opening to engage the associated bar.

7. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping relatively slidable horizontal bars, oppositely disposed stationary side members to each of which one end of one bar of each overlapping pair is secured, a loop on the free end of each bar encircling the other bar of its pair, the side members being securable to the sides of the window opening, a set screw extending through at least one of the loops from inside the opening to engage the associated bar, the outer end of the

set screw being beneath the surface of the bar when screwed down, and reinforcing members joining the free ends of the bars.

8. A burglar bar assembly for a window opening comprising a plurality of pairs of overlapping relatively slidable horizontal bars, oppositely disposed stationary side members to each of which one end of one bar of each overlapping pair is secured, a loop on the free end of each bar encircling the other bar of its pair, the side members being securable to the sides of the window opening, and a set screw extending through the uppermost and lowermost loops of the assembly from the inside of the window opening to engage the associated bars of the uppermost

and lowermost pairs of bars, the outer ends of said set screws being beneath the surfaces of the loops and hidden from view from outside the window when engaged.

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