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[54] **SECURITY BAR FOR SLIDING DOORS**

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[51] **Int. Cl.** **E05d 13/04**
[58] **Field of Search** ..... 49/449, 450; 292/2 DF, 292/262, 335

[56] **References Cited**

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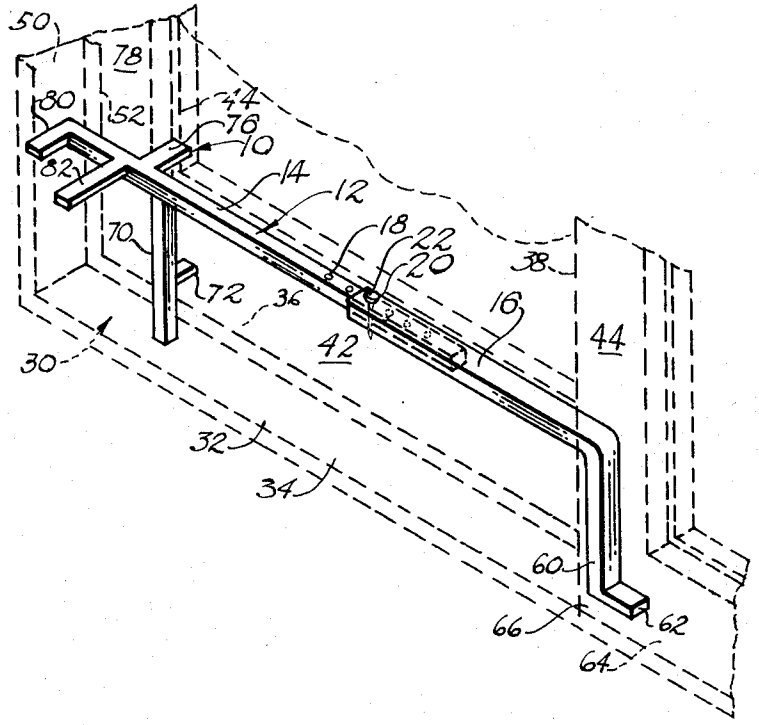
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Primary Examiner—Kenneth Downey
Attorney, Agent, or Firm—Patrick F. Henry

[57] **ABSTRACT**

An adjustable, elongated security bar including two telescopic sections and having a depending leg on one end with an outwardly extending projection thereon which fits beneath the corner of the frame of a sliding glass patio door and having on the other end an arrangement or projections one of which is carried by a depending leg approximately the same length as the leg on the other end for positioning in the door frame track in the threshold. Another projecting member on the same end as the second leg projects outwardly and fits into the vertical channel in the door frame above the bottom corner to prevent dislodgement and stop the door from sliding. The projection on the second leg rests against the face of the second door frame which may be either a sliding glass door frame or a fixed door frame and still another projection thereabove projects in front of the second frame and blocks the frame and therefore the entire second door from movement. Another and second, outwardly projecting member is an alternative construction for a different type of frame.

6 Claims, 3 Drawing Figures



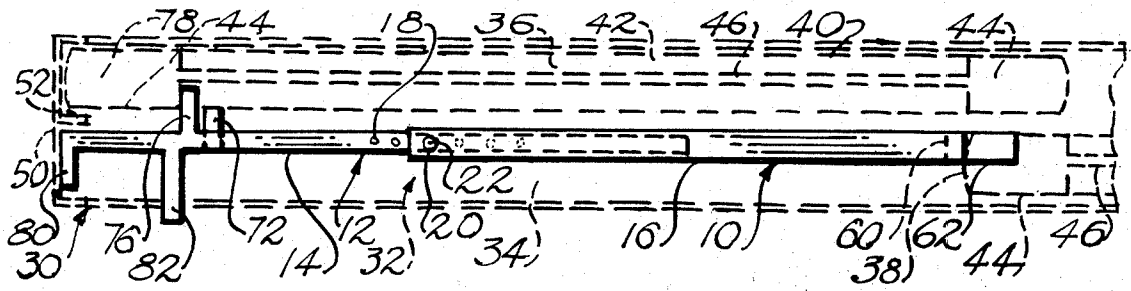


Fig. 1

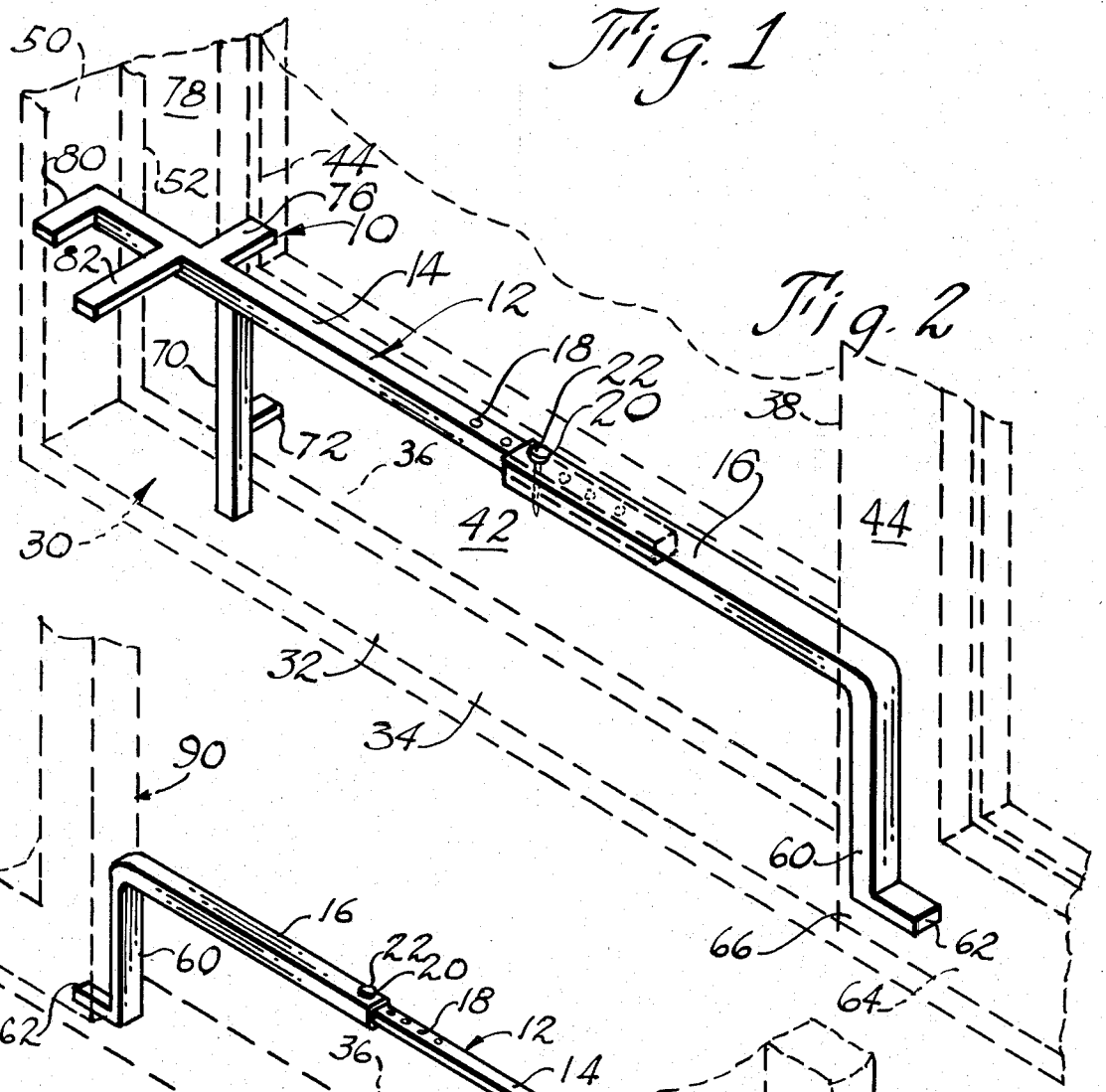


Fig. 2

Fig. 3

SECURITY BAR FOR SLIDING DOORS

BACKGROUND OF THE INVENTION

1. Field of the Invention

Security latching devices for closures such as doors and windows. Fixed bar-type security locks for doors.

2. Description of the Prior Art

The most common and least expensive method of blocking a sliding glass door is to use a section of broomstick or pole dropped into the channel of the threshold with one end abutting the door frame and the other end abutting the fixed frame in the wall. There is a space between the sliding glass door frame and the fixed or second sliding glass door frame which is sealed by insulation of one sort or another such as a rubber strip but it is possible to insert a screwdriver or other implement through this space and to manipulate a broomstick or similar straight section in such a way as to dislodge it from the door. This has been done quite often by burglars to enter a patio door in homes. There are other security latching devices for sliding glass doors including chains and implements inserted between the fixed frame in the opening and the vertical part of the door frame. As mentioned previously the members inserted in this manner can be dislodged by manipulation with a thin implement or screwdriver. Chains can be forced loose by constant pressure on the door and it is even possible to use a small screwjack implement to jack the door enough to rip the chain bracket from its anchor. A sliding glass door is a common way of entering a home and it is usually secluded at the rear or side where a burglar can work quietly for a few minutes to get the door open. The present device is inserted and removed quickly and easily but cannot be dislodged by manipulation either between the door frames or pressure against one or the other.

SUMMARY OF THE INVENTION

An adjustable security bar which has one end inserted beneath the corner of the sliding glass door frame and the other end projecting in such a way as to be inside the fixed frame channel and in front of a second door frame.

An object of this invention is to provide a security bar which is easily installed and removed and which therefore can be placed at night before retiring and removed the next day and which is so inserted behind the movable door frame as to prevent dislodgement by a potential house breaker working outside the door and so arranged as to also block a second sliding glass panel and to be located in a recessed part of the fixed wall frame.

Another object of this invention is found in the adaptability of the above noted security bar so that it may fit anyone of many different sizes and types of doors.

Another object of this invention is found in the simplicity of construction lending itself to economical manufacture.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a top plan view of one form of the present security bar in place on a typical sliding glass patio door arrangement which slides from right to left.

FIG. 2 is a perspective view of the sliding glass door arrangement and security bar shown in FIG. 1, and with the parts of the fixed frame and door frames shown in dotted lines.

FIG. 3 is a perspective view of the same bar of FIG. 1 on a door which slides from left to right.

DESCRIPTION OF THE PREFERRED EMBODIMENT

The security bar is designated overall and generally by reference numeral **10** and comprises an elongated bar member designated generally by reference numeral **12** consisting of two elongated members **14, 16** telescopically connected to form the composite elongated bar **12.** Section **16** is hollow and has inserted therein the end of section **14** which has a series of holes **18** in spaced relation thereon and any one of which matches with a hole **20** in section **16** into which is inserted a fastener **22** thereby providing selective adjustment of the two sections **14, 16** by repositioning fastener **22** in any one of many positions of aligned openings **18, 20.**

The security bar **10** fits any one of many different sizes and arrangements of doors. In the dotted lines in FIGS. **1** and **2** there is illustrated partially a typical fixed aluminum frame **30** in a wall opening and having a threshold **32** supporting an inside track **34** and an outside track **36** in which respectively is mounted a respective sliding glass door **38, 40** each having respective horizontal frame members **42** and vertical frame members **44** in which is mounted glass **46.**

The fixed frame **30** in the wall opening includes vertical frame members **50** in the form of aluminum channels or extrusions **52.** Door **38** slides from right to left inside the room to be made secure.

The security bar **12** section **16** has a short leg **60** extending therefrom and leg **60** has a short projection or foot **62** which is slightly tapered to fit beneath the corner under the horizontal frame member **64** at the corner **66** of the first removable or fixed door **38.** The leg **60** lies in and extends parallel with the track **34** under the door **38.**

The other end of the security bar **10** opposite from section **16** and on the end of section **14** includes a downwardly depending and projecting leg **70** which is welded, brazed or otherwise attached to the section **14.** Leg **70,** which is about the same length as the leg **60** on the other end, includes a short projection **72** which engages the side of the door frame member **42** of second door **40.** A third projection **76** is a door blocking projection and extends inwardly from the section **14** to abutt and lie against the face **78** of the vertical frame member **44** of the second sliding door **40.** The end of section **14** has an outwardly extending fourth projection **80** which fits into and transversely across the channel **52** securely positioning the section **14** to prevent displacement and dislodgement and to prevent the section **14** from being dislodged sideways or rotated to bring the ends of the section **14** out of the channel **52.** Another projection **82** which is spaced from and parallel with a projection **80** and extends outwardly in the same manner is slightly longer and it is for a different type of door arrangement than that shown in FIGS. **1** and **2.**

In the arrangement shown in FIG. **3** the inside door **90** in the room slides from left to right and the other door **92** on the right hand is outside and may be a fixed panel or removable panel door. The same security bar **10** is used with the fourth projection **80** against the frame of door **92** and the projection **82** is across the

face of the frame of door **92** just as projection **76** was previously. Leg **70** is vertical and in the same position except that projection **72** faces outwardly rather than against the door frame.

While I have shown and described a particular embodiment of this invention in connection with a certain arrangement of sliding glass door this is by way of illustration only and does not constitute any sort of limitation since there are various alterations, changes, deviations, amendments, revisions, eliminations, additions, substitutions, omissions and departures which may be made in the present illustration and other types of sliding glass door arrangements with which the present invention can be used without departing from the scope of this invention as defined only by a proper interpretation of the appended claims.

What is claimed:

1. In a security bar positioned on the fixed frame in a wall opening in which there is at least one first sliding door having a door frame in said fixed frame and in which there is at least one other second either fixed or sliding door having a door frame in the same fixed frame:

a. an elongated, rigid, strong and adjustable security bar having a downwardly depending leg on one end thereof, said leg terminating in a short angular projection which is fitted beneath the corner of the first sliding door, said bar being supported on said leg above the bottom of the sliding door and being selectively adjustable in length to fit tightly between the first sliding door and the fixed frame,

b. the other end of the bar being inserted against and abutting the fixed frame opposite from the sliding door frame in a tight fitting,

c. and at least one other projection projecting inwardly in front of a portion of said second door frame to prevent said sliding door from movement and to prevent dislodgement of said security bar in a certain direction of attempted movement.

2. The device claimed in claim **1** wherein there is a transverse projection on the end of said security bar which is engaged with said fixed frame and said projection extending transversely to said fixed frame.

3. The device in claim **1** wherein there is a second projection extending inwardly in generally the same direction of said first projection and engaging the side of said second door frame.

4. The device in claim **1**: said security bar comprising two elongated sections rigidly and adjustably connected.

5. The device in claim **4**: said sections being telescopically engaged for telescopic adjustment in length.

6. The device in claim **2**: another and second transverse projection on said bar extending transversely in a direction opposite from said first transverse projection and being used when said bar is positioned with said second transverse projection across a door frame.

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