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T. SONNE

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AWNING

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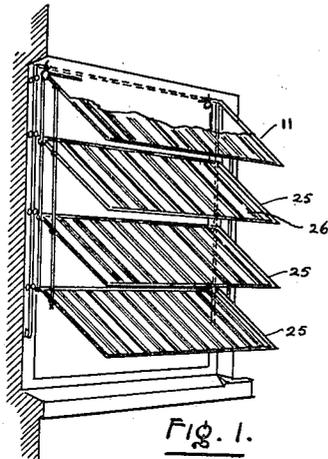


Fig. 1.

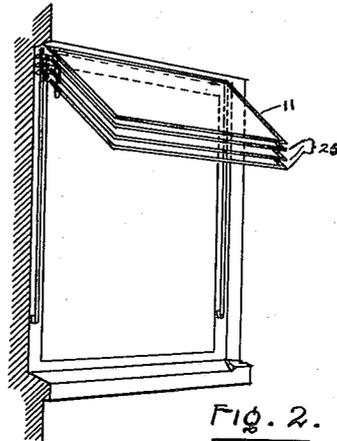


Fig. 2.

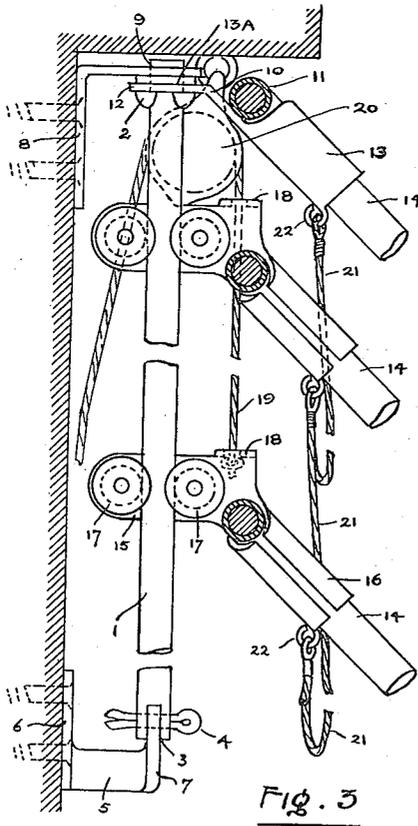


Fig. 3

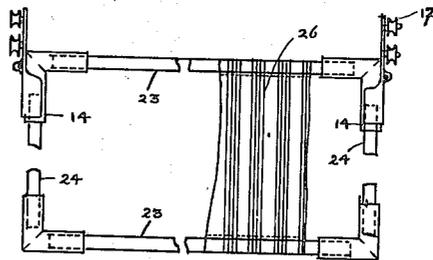


Fig. 4.

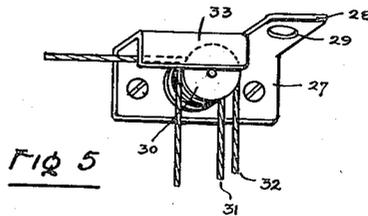


Fig. 5

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AWNING.

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To all whom it may concern:

Be it known that I, THOMAS SONNE, of the city of Vancouver, in the Province of British Columbia, Canada, manufacturer, have invented certain new and useful Improvements in Awnings, of which the following is the specification.

My invention relates to improvements in window awnings and the like and is designed to overcome the difficulties of manufacture and fitting possessed by existing awnings, while producing improvement and advantages such as:—

The arrangement of the awning to allow at all time free passage of air through the opening to which it is fitted.

Facilities for removing or replacing any section of the awning without the use of tools of any kind.

Reasonable adjustment widthwise of awning sections that stocks may be carried in retail stores and that the awning may be assembled and fitted by unskilled persons.

My invention is simple and consists essentially of two guide rods supported in a parallel manner away from the framework of the opening to which the awning is fitted, a top awning section in fixed position and other awning sections fitted with guide rollers, the awning sections raised or lowered in parallel relation to each other by one or more cords running over pulleys fixed to the head of the opening as will be more particularly explained by the following specification.

Fig. 1 is a perspective view of my awning extended to cover a window opening.

Fig. 2 is a perspective view of awning with its various awning sections raised to the top of the opening.

Fig. 3 is a sectional view showing the disposition of the guide rollers and awning frames on one of the guide rods.

Fig. 4 is a plan view of one of the adjustable sections.

Fig. 5 is a perspective view of a modified form of top guide bracket with pulleys thereon.

In the drawing, like characters of reference indicate corresponding parts in each figure.

In these, 1 (see Fig. 3) represents one of a pair of guide rods which will preferably be of circular cross section and which has a

shoulder or collar 2 adjacent its upper end, the lower end of said guide rod is slotted as at 3 and has a split pin 4 therein for securing same to bottom lug 5.

The bottom bracket consists substantially of a base 6 with holes therein for screw for attachment of the lug to framework, a member extending at right angles to the frame and a guide rod supporting member 7 in parallel relation to the base 6 which extends upwards as shown, to receive the slotted extremity 3 and pin 4 of the guide rod 1.

No. 8 represents in general, my top guide rod bracket, consisting of an angular piece of metal, the vertical leg having holes therein for attachment by screws to the frame and the horizontal projecting leg having a hole 9 therein through which is passed the upper end of guide rod 1.

No. 10 is one of a pair of clips supporting top awning section 11 see Figs. 1 and 2 which will preferably be made of sheet metal, the upper or horizontal portion 12 being bent at any desired angle from the clip member 13 and having a hole 13^a in such upper portion slightly larger than the diameter of the guide rod 1 which passes through same, retaining the clip member 12 between shoulder 2 and angle bracket 8, the clip member 13 is curved into tubular cross section engaging the angle pieces 14 of any awning section.

The adjustable clip members are represented by 15 consisting of a plate having a downwardly projecting extension bent into tubular cross section as at 16 engaging the angle pieces 14 of their respective awning sections mounted on the plate 15 are U grooved rollers 17 which are spaced to embrace yet travel freely along guide rod 1.

An extension lip is bent outwardly from plate 15 as at 18 which is perforated for the passage of or attachment to a cord 19.

The clip members may be constructed with clip 16 being a separate unit from plate 15 though pivotally mounted thereon and clamped with a nut to permit of the awning section being set at any desired angle to the guides.

No. 20 represents any awning pulleys secured in a convenient position at the top of the opening over which is passed the cord 19.

Cord 21 is attached as at 22 to rings in the angle brackets of awning section for the

purpose of retaining the several awning sections when extended in their predetermined positions as shown in Fig. 1.

In Fig. 4 an awning section is shown in which 14, 14, are angular tubular members each having one of its legs at 90 degrees from the other, the outer ends are open and are made to receive the ends of the legs of distance or side rods 23 and 24, such distance rods being telescopic within the legs of the angular members, thus forming a frame adjustable for width or length.

The sections 11 and 25 may be covered with any suitable material as at 26 Fig. 1 which may be attached by stitched seams or otherwise to any or all of section members 14, 23 and 24.

Modification of the top guide bracket may be had as in Fig. 5 in which 27 represents the base plate of the bracket which is provided with a portion 28 bent over at right angles having a hole 29 in same for receiving the top of guide rod, mounted on base plate 27 are one or more grooved pulleys 30 to accommodate the control cords 31 and 32, 33 represents a further extension of the base plate turned outwardly from the plate 27 and downwardly at its outer edge to form a keeper over the pulleys.

Having described the principal parts involved in my invention I will briefly describe its operation.

Assuming the awning to be extended, the various sections are suspended one from another in parallel relation by the cords 21 attached to the sections as by the eyes 22.

The control cords of which there will preferably be two, one towards either side of the opening, passing over the pulleys 20 the outer ends passing through the hole in lip 18 of each of the intermediate sections and attaching to lip of the lowermost section.

On the cords being pulled the lowermost section rises alone until the clip members of the bottom section come into contact with those of the next section, when vertical motion is thereby imparted to that section and so on until all the movable sections are brought to rest immediately beneath the top, fixed section and in close proximity to each other so shown in Fig. 2.

The lowering of the awning sections is merely a reversal of the above, each movable upper section attaining a position of suspension as the limit of its travel, prescribed by cord 21, is reached.

What I claim as my invention is:

1. An awning structure comprising a plurality of slidable supports and a plurality of awning sections detachably secured to the supports and disposed one above the other.

2. An awning structure as recited in claim 1 in which the supports are arranged in pairs derlying the supports in combination with with the supports of each pair engaging and

supporting an awning section extending therebetween.

3. An awning structure comprising parallel guide rods, retaining clips slidable thereon, and independent awning sections detachably carried by said clips.

4. An awning structure comprising guide rods, retaining clips provided with guide rollers arranged to travel on said rods and awning frames detachably carried by said clips.

5. An awning structure comprising superimposed pairs of supporting members, the members of the upper pair being stationary while the members of the remaining pairs are movable vertically, an awning section extending between and detachably supported by the members of each pair, means for suspending the movable supporting members from the upper stationary members, and means for raising and lowering said movable members.

6. An awning structure comprising relatively movable units, each unit comprising a pair of outwardly extending supports and a removable awning section extending between and detachably secured to said supports.

7. An awning structure as recited in the preceding claim in which the supporting members are provided with grooves receiving the ends of the awning section therein.

8. An awning structure as recited in claim 6, including means for effecting relative movement of the various units.

9. An awning structure comprising superimposed relatively adjustable units, each unit comprising a pair of parallel supports and a removable awning section extending between and detachably secured to said supports, means for holding the upper unit stationary, means for suspending the remaining units from the stationary upper unit and means for effecting relative adjustment of the units.

10. An awning structure comprising a pair of upright guide rods, a plurality of superimposed relatively adjustable units, each unit comprising a pair of outwardly extending supports, the inner ends of which are slidable on the guide rods, an awning section extending between and detachably carried by said supports, means for holding the supports of the upper unit against vertical movement, means for suspending the supports of the remaining unit from the supports of the said upper unit, and means for adjusting said units to dispose the same in spaced relation or in contact with one another at the upper ends of the guide rods.

11. An awning structure as recited in claim 10, in which the supports of the upper unit are held against vertical movement by means of a shoulder on the guide rods unbrackets for said rods overlying the supports.

12. An awning structure as recited in claim 11 in which the inner end of each support is provided with a pair of rollers by means of which it is slidably mounted on its
5 respective guide rod.

13. An awning structure as recited in claim 12 in which the outer ends of each support are formed into a clip for detachably engaging its respective awning section.

14. An awning structure as recited in claim 13, in which each awning section comprises a rectangular fabric covered frame.

Dated at Vancouver, B. C.

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Witnesses:

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