July 11, 1950 M. A. OSTROW 2,514,790

SUPPORT FOR GARMENT HANGERS

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Fig. 1

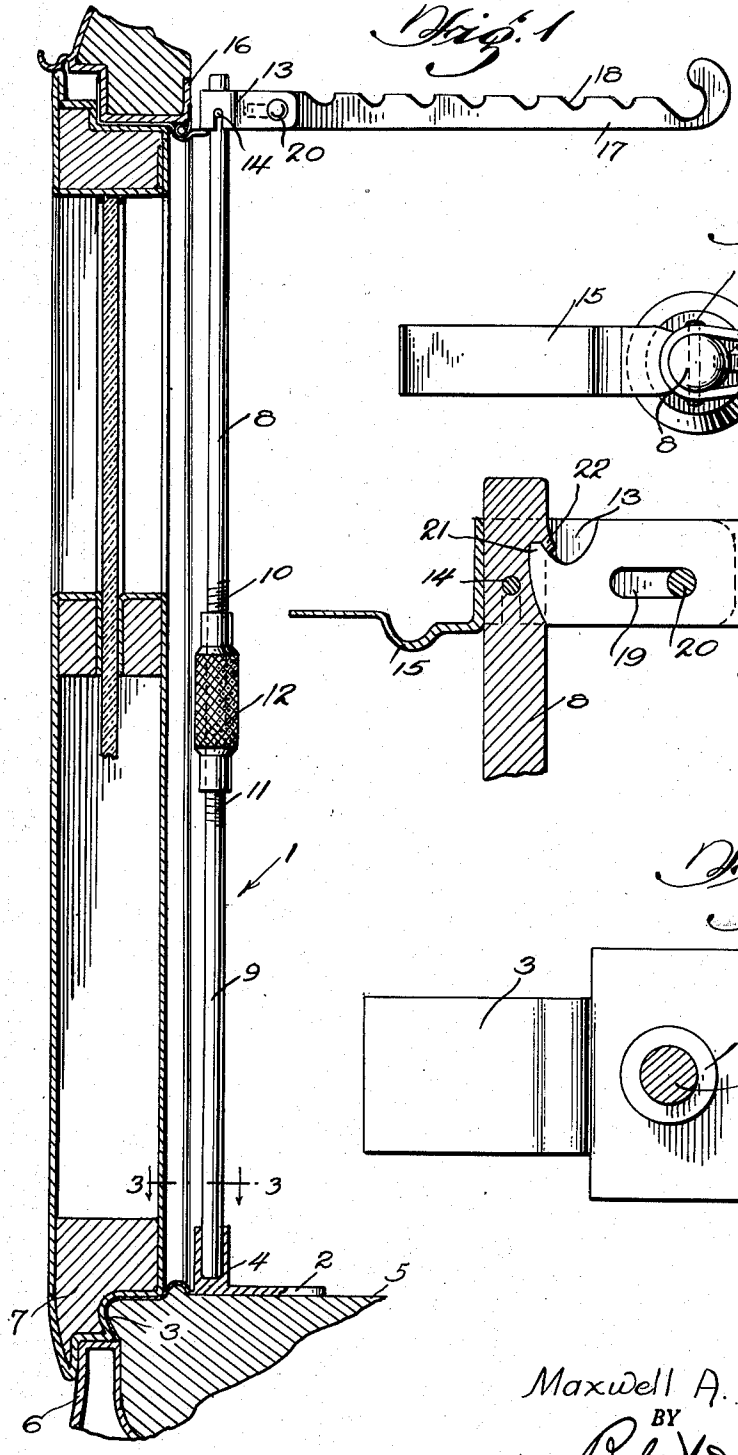


Fig. 2

Fig. 4

Fig. 3

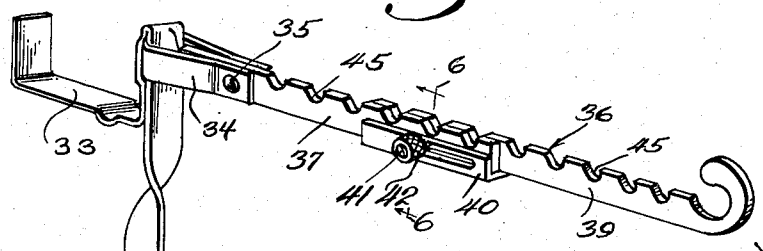
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Fig. 5



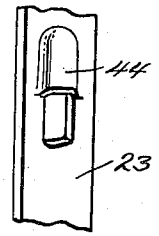


Fig. 9

Fig. 6

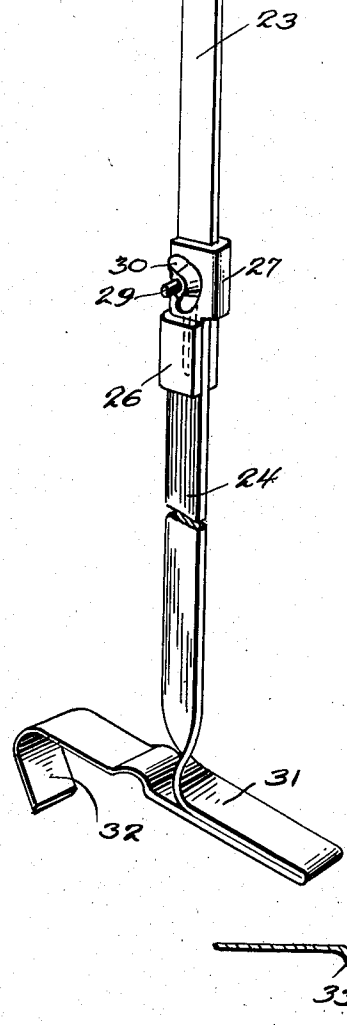


Fig. 7

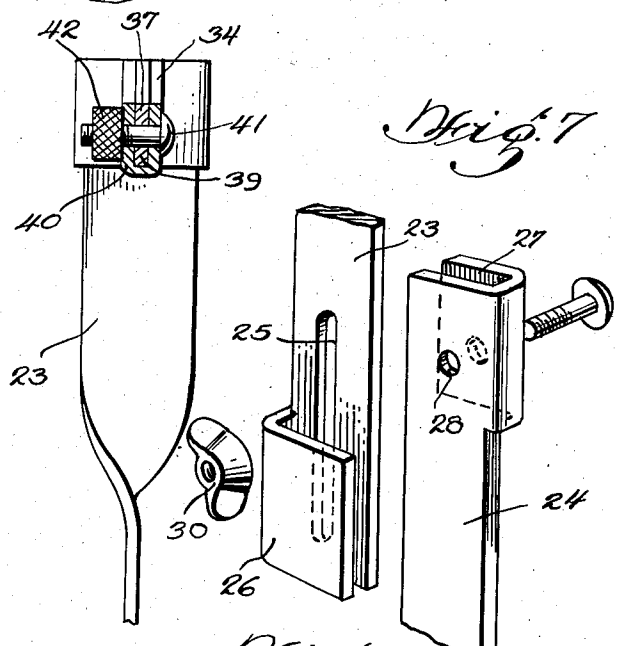
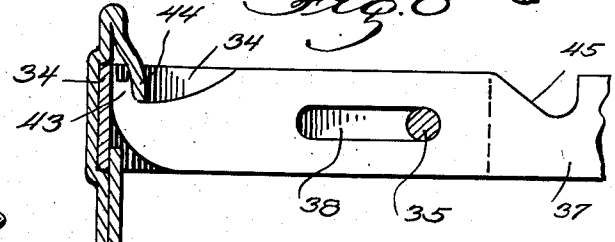


Fig. 8



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Patented July 11, 1950 2,514,790

UNITED STATES PATENT OFFICE

2,514,790

SUPPORT FOR GARMENT HANGERS

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Application January 8, 1946, Serial No. 639,822

10 Claims. (Cl. 224—42.45)

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The present invention relates to improvements in supports and has reference more particularly to a device for supporting garment hangers in an automobile.

The primary object of the present invention is to provide a support for garment hangers that is adapted to be secured in a rigid position in the rear seat compartment of an automobile for accommodating one or more garment hangers to support garments without causing the latter to become rumpled while traveling, thus obviating the necessity of having to press the garments when removed from the hangers and supporting device.

A further object of the invention is to provide a device of the above mentioned character that will be secured in place in an operative position by one of the doors of the automobile when the door is closed, and readily removable when not in use, when the door is moved to an open position.

A still further object is to provide a support for garment hangers that will not necessitate any alterations to an automobile in order to secure the device in position for use, and further, the device can be adjusted to accommodate various heights of automobile body interiors.

Another object is to provide a device of the above mentioned character that can be readily and easily assembled and disassembled and when not in use, can be placed in the luggage compartment of the automobile without occupying much space.

A still further and important object is to provide a support for garment hangers that will be inexpensive, strong and durable and at all times positive and efficient in carrying out the purposes for which it is designed.

Other objects and advantages of the invention will become apparent from the following description when taken in connection with the accompanying drawings.

In the drawings, wherein like reference characters designate corresponding parts throughout the several views,

Figure 1 is a vertical sectional view through an automobile body showing one form of the invention mounted in position for use;

Figure 2 is a top plan view of the garment hanger support;

Figure 3 is a sectional view taken on the line 3—3 of Figure 1, showing the base portion of the device;

Figure 4 is a fragmentary detail view showing

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the manner in which the pivoted arm is secured in its operative position;

Figure 5 is a perspective view of another form of the invention;

Figure 6 is a sectional view taken on the line 6—6 of Figure 5;

Figure 7 is a perspective view of the intermediate portions of the flat members constituting the modified form of standard;

Figure 8 is a detail view showing the manner in which the pivoted arm of the modified form of support is secured in its operative position, and

Figure 9 is a fragmentary elevation of the upper part of the modified standard.

In the drawings, with reference more particularly to Figures 1 to 4, inclusive, wherein the preferred embodiment of my invention is disclosed, the numeral 1 designates generally the support. The support includes a base plate 2 having a downwardly and inwardly directed spring clip portion 3 extending from its outer end, the purpose of which will be presently described. A tubular socket 4 is arranged to extend upwardly from the base plate 2.

The base plate 2 is adapted to rest on the floor of the rear seat compartment of an automobile, with the spring clip portion 3 engaged over the bead portion 6 at the bottom of the door frame of the automobile. The lower portion of the door 7 will fit over the spring clip 3 when the door is closed, thereby securely holding the base plate 2 against displacement and movement.

The support also includes a vertically adjustable standard, the latter comprising upper and lower rod sections 8 and 9. The inner opposed ends of these rod sections are formed with right and left hand threads 10 and 11, respectively, and cooperating therewith is the knurled sleeve 12 whose respective ends are formed with right and left hand internal threads to receive the respective ends of the oppositely threaded portions of the rod sections. Thus, by rotating the sleeve, the rod sections may be adjusted longitudinally to accommodate the door frames of different heights.

The lower end of the lower rod section 9 is removably fitted in the socket 4. Secured on the upper end of the upper rod section 8 of the standard is the bracket 13. This bracket is in the nature of a strip of metal that is bent around the upper rod section and is fixedly attached thereto by a pin 14 in the manner as clearly shown in Figures 2 and 4.

A spring clip 15 is either integrally or other-

wise fixedly associated with the loop forming portion of the bracket 13. The upper spring clip is formed to engage over the bead portion 16 at the top of the door frame of the automobile and is further held in place by the adjacent upper portion of the door 7 when the latter is in its closed position. It is, of course, understood that the upper and lower spring clips are shaped to conform to the shape of the upper and lower rails or jambs of the door frame.

In this manner, the support will be rigidly secured in position in the rear seat compartment of an automobile when the device is in use.

Forming a salient part of the invention is the hanger arm or bar. The upper edge of this arm is notched at spaced intervals as indicated at 18 to accommodate the hook portions of conventional garment hangers.

The inner end portion of the hanger arm or bar 17 is formed with a slot 19 to coact with the pin 20 that extends transversely through the free end portions of the arms of the strap bracket 13. This construction provides a pivotal and slidable connection for the hanger arm or bar 17.

In order to secure the hanger arm in its horizontally extended operative position, a hook or bill 21 is formed on the extremity of the inner end of the hanger arm, for cooperation with the lip 22 struck out form the upper rod section 8 and this feature is clearly illustrated in Figure 4 of the drawings.

When the parts are assembled as shown in the drawings, garment hangers with garments thereon may be suspended from the hanger arm or bar and will be properly supported in such suspended condition in the rear seat compartment without causing the garments to be wrinkled while so suspended in the automobile.

When not in use, the device can be readily and easily dismantled and stored away by simply disengaging the hook 21 from the lip 22, then swinging the hanger arm on its pivot 20 to a vertical position against the standard. By opening the door 7, and turning the sleeve 12 in the proper direction, the spring clips can be readily and easily disengaged from their respective beaded positions of the door frame.

The sectional rods may be disconnected and also disengaged from the base plate and the several parts then may be stored away in the luggage compartment of the automobile until it is necessary to again use the device.

Attention is now directed to Figures 5 to 9, inclusive, wherein a modified form of the invention is illustrated. In this form, the support is formed entirely of strap metal.

The adjustable standard includes the upper and lower sections 23 and 24. The lower end portion of the upper section 23 is formed with a longitudinal slot 25 and an angular piece 26 is associated with one edge of the lower end portion of the upper section and overlies the slotted portion of said section in spaced relation thereto.

A similar angular piece 27 is associated with one edge of the upper portion of the lower section 24 and the slotted lower end of the upper section 23 fits between the upper end of the lower section 23 and its angular piece 27. The upper portion of the lower section 23 is formed with an opening 28 and a similar opening is formed in the angular piece 27 in registry with the opening 28 to accommodate the bolt 29 which also extends through the slot 25. A thumb nut 30 is threaded on the bolt 29. This construction provides for the bracing of the sections of the standard and also permits the same to be longitudinally adjusted.

The lower end of the lower section 24 is bent to form a floor engaging base portion 31 and a spring clip 32 for engagement over the beaded portion at the bottom of the door frame of the automobile, similar to that in which the spring clip 3 engages over the beaded portion 6, heretofore described.

The upper end of the upper standard section 23 is bent to form the upper spring clip 33, that is shaped to conform to the beaded portion at the top of the door frame over which it engages in the same manner as the spring clip 15 engages over the beaded portion 16, also heretofore described.

When these spring clips 32 and 33 are engaged over their respective bead portions, the door, when closed, will coact with the spring clips to hold the strap metal form of support in a rigid position in the rear seat compartment of the automobile. It is, of course, to be understood that the spring clips 32 and 33 will be thinner than the thickness of the standard forming sections in order to assure proper closing of the automobile door.

A bracket 34, formed from a strip of metal is associated with the upper end portion of the upper standard section 23 and a pin 35 extends transversely through the outer ends of the arms of this bracket.

A sectional hanger arm or bar 36 includes an inner section 37, the inner end portion of which is formed with a slot 38 and is disposed between the arms of the bracket 34. The pin 35 extends through the slot 38 and provides a pivotal and slidable connection between the hanger arm or bar and the bracket 34.

The outer section 39 of this hanger arm or bar is formed at its inner end portion with an angular piece 40 at its lower edge that extends upwardly and parallel to the body of the outer section 39. The outer end portion of the inner section 37 fits between the upstanding side wall of the angular piece 40 and the adjacent side face of the outer section 39. These sections are adjustably secured in any extended position by means of the bolt 41 that extends through the slotted sections and the slotted side wall of the angular piece 40 and a knurled nut 42 is threaded on the bolt to hold the sections in any longitudinally adjusted position.

A hook or bill 43 is formed on the inner extremity of the inner section 37 for cooperation with the lip 44, struck out from the upper portion of the upper section 23 of the standard to secure the hanger arm or bar in its horizontal operative position, in the manner as is more clearly illustrated in Figure 8 of the drawings.

By disengaging the hook 43 from the lip 44, the hanger arm or bar can be moved forwardly and then swung downwardly against the standard to an inoperative position.

The upper edges of the sections of the hanger arm or bar are formed with spaced notches 45 to accommodate the hooks of garment hangers so that the hangers (not shown) with the garments thereon will be properly suspended from the hanger arm or bar 36 when the device is in use.

It will thus be seen from the foregoing description that I have provided a support for garment hangers for use in automobiles that can be readily and easily assembled and disassembled and one which will be strong and

durable as well as inexpensive and which will not necessitate any alterations to the automobile in order to set up the device for use or require the permanent attachment of any part of the device to the automobile. Further, with a device of this character, a large number of garments arranged on hangers can be carried in the automobile without causing wrinkling of the garments thus enabling the garments to be readily removed and ready for wear without requiring pressing.

While I have shown the preferred embodiment of my invention, it is to be understood that various changes in the size, shape, material and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claims.

Having thus described the invention, what I claim is:

1. A support for garment hangers for use in an automobile having a door frame, a door, and a floor, comprising a base adapted to rest on the floor, a spring clip carried by the base for engagement over the lower portion of the door frame, a standard mounted on the base, an upper spring clip carried by the upper portion of the standard and adapted to engage the top portion of the door frame, said spring clips being retained in engagement with the door frame by the door when the latter is in a closed position, and a hanger supporting member mounted on said standard.

2. A support for garment hangers for use in an automobile having a door frame, a door, and a floor, comprising a base adapted to rest on the floor, a spring clip carried by the base for engagement over the lower portion of the door frame, a standard mounted on the base, an upper spring clip carried by the upper portion of the standard and adapted to engage the top portion of the door frame, said spring clips being retained in engagement with the door frame by the door when the latter is in a closed position, said standard being vertically adjustable, and a foldable garment hanger supporting bar mounted on the upper portion of the standard.

3. A support for garment hangers for use in an automobile having a door frame, a door, and a floor, comprising a base adapted to rest on the floor, a spring clip carried by the base for engagement over the lower portion of the door frame, a standard mounted on the base, an upper spring clip carried by the upper portion of the standard and adapted to engage the top portion of the door frame, said spring clips being retained in engagement with the door frame by the door when the latter is in a closed position, said standard being vertically adjustable, a foldable garment hanger supporting bar mounted on the upper portion of the standard, and means for locking the hanger supporting bar in its operative position.

4. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions and a door; comprising a base adapted to rest on the floor, means on said base for engagement over the lower beaded portion of the door frame, a standard mounted on the base, means on the upper end of the standard for engagement over the upper beaded portion of the door frame, both of said means being retained in engagement with the respective beaded portions of the door frame by the door when the latter is in a closed position, and a garment hanger supporting member mounted on the upper portion of the standard.

5. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions and a door; comprising a base adapted to rest on the floor, means on said base for engagement over the lower beaded portion of the door frame, a standard mounted on the base, means on the upper end of the standard for engagement over the upper beaded portion of the door frame, both of said means being retained in engagement with the respective beaded portions of the door frame by the door when the latter is in a closed position, said standard being vertically adjustable, and a garment hanger supporting member mounted on the upper portion of the standard.

6. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions, and a door; comprising a base adapted to rest on the floor, a spring clip extending laterally from the base and shaped to fit over the lower beaded portion of the door frame, a vertically adjustable standard mounted on the base, a bracket carried by the upper end of the standard, a spring clip extending laterally from said bracket and shaped to fit over the upper beaded portion of the door frame, both of said spring clips being retained in engagement with the respective beaded portions of the door frame by the door, when the latter is in a closed position, and a garment hanger supporting member mounted on said bracket.

7. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions, and a door; comprising a base adapted to rest on the floor, a spring clip extending laterally from the base and shaped to fit over the lower beaded portion of the door frame, a vertically adjustable standard mounted on the base, a bracket carried by the upper end of the standard, a spring clip extending laterally from said bracket and shaped to fit over the upper beaded portion of the door frame, both of said spring clips being retained in engagement with the respective beaded portions of the door frame by the door, when the latter is in a closed position, and a garment hanger supporting member slidably and pivotally mounted on said bracket.

8. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions, and a door; comprising a base adapted to rest on the floor, a spring clip extending laterally from the base and shaped to fit over the lower beaded portion of the door frame, a vertically adjustable standard mounted on the base, a bracket carried by the upper end of the standard, a spring clip extending laterally from said bracket and shaped to fit over the upper beaded portion of the door frame, both of said spring clips being retained in engagement with the respective beaded portions of the door frame by the door, when the latter is in a closed position, a garment hanger supporting member slidably and pivotally mounted on said bracket, and coacting means between the inner end of the garment hanger supporting member and the standard for locking the garment hanger supporting member in a raised operative position.

9. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions, and

a door; comprising a base adapted to rest on the floor, a spring clip extending laterally from the base and shaped to fit over the lower beaded portion of the door frame, a vertically adjustable standard mounted on the base, a bracket carried by the upper end of the standard, a spring clip extending laterally from said bracket and shaped to fit over the upper beaded portion of the door frame, both of said spring clips being retained in engagement with the respective beaded portions of the door frame by the door, when the latter is in a closed position, a garment hanger supporting member slidably and pivotally mounted on said bracket, a lip struck out from the upper portion of the standard, and a coacting hook formed on the inner end of the garment hanger supporting member for engagement with the lip to lock the garment hanger supporting member in a horizontal operative position.

10. A support for garment hangers for use in an automobile having a floor, a door frame provided with beaded upper and lower portions, and a door; comprising a base plate adapted to rest on the floor, a spring clip extending laterally from the base plate and shaped to fit over the lower beaded portion of the door frame, a socket extending upwardly from the base plate, a vertically adjustable standard having its lower end

removably fitted in said socket, a bracket carried by the upper end of the standard, a spring clip extending laterally from the bracket and shaped to fit over the upper beaded portion of the door frame, both of said spring clips being retained in engagement with the respective beaded portions of the door frame by the door when the latter is in a fully closed position, and a garment hanger supporting member mounted on said bracket and extending laterally therefrom in a direction opposite that from which the upper spring clip extends.

MAXWELL A. OSTROW.

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