

April 8, 1952

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2,592,032

FOLDING SERVICE TRAY FOR AUTOMOBILE GLOVE COMPARTMENTS

Filed July 28, 1950

2 SHEETS—SHEET 1

Fig. 1.

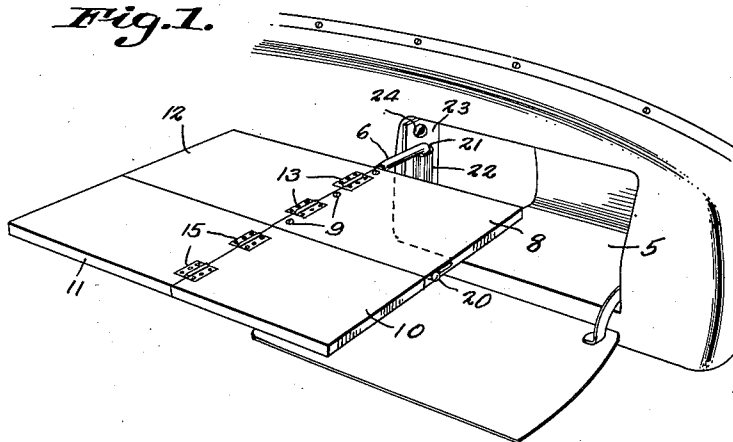
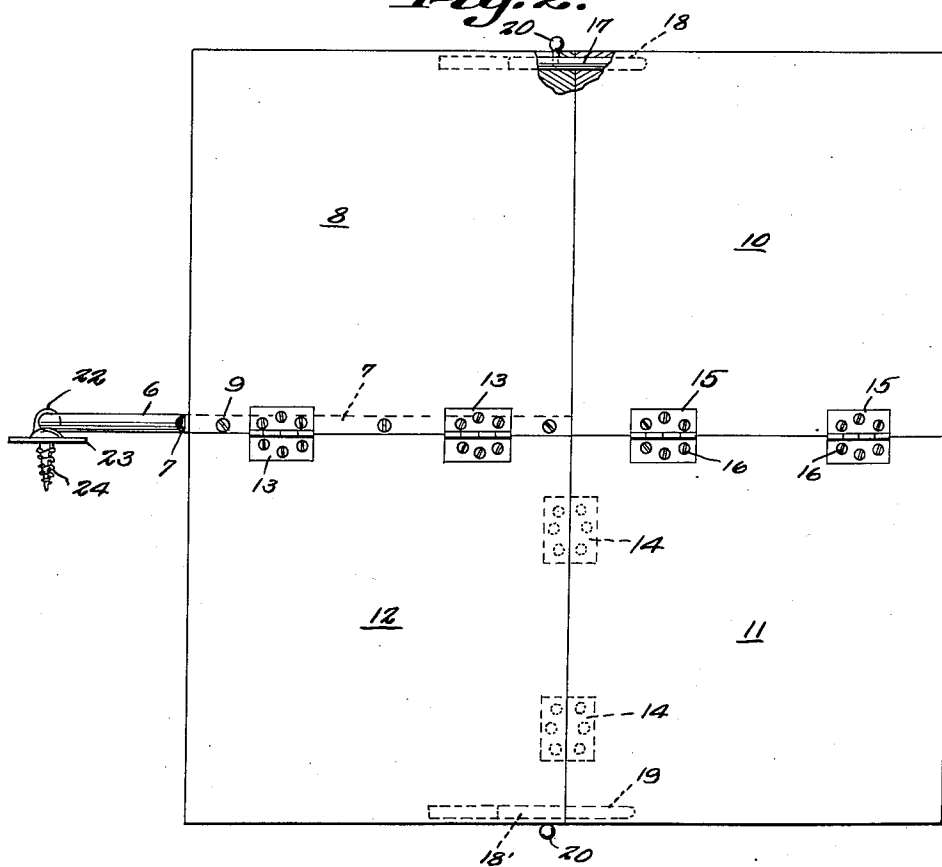


Fig. 2.



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2 SHEETS—SHEET 2

Fig. 3.

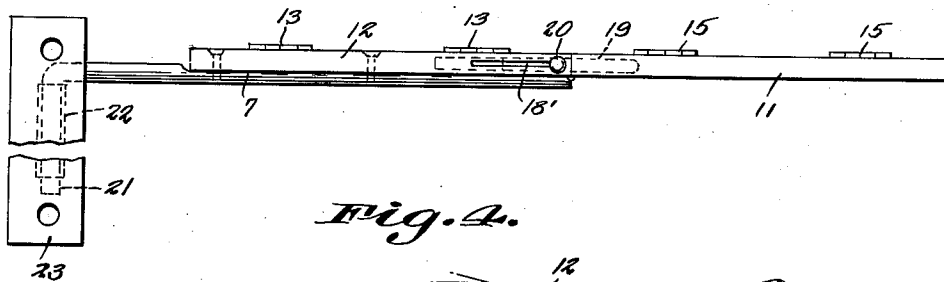


Fig. 4.

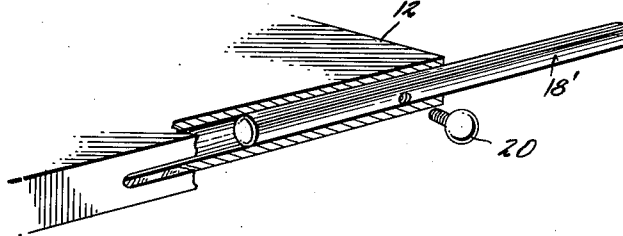


Fig. 5.

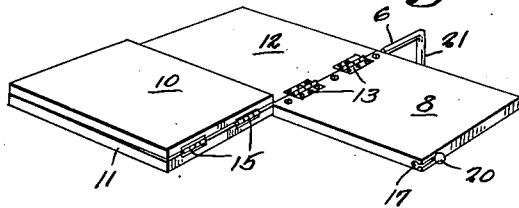


Fig. 6.

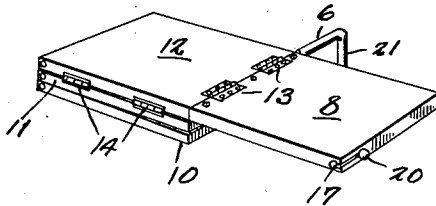
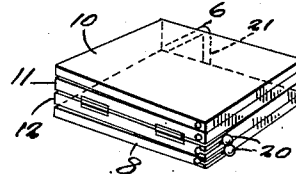


Fig. 7.



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2,592,032

FOLDING SERVICE TRAY FOR AUTOMOBILE
GLOVE COMPARTMENTS

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1 Claim. (Cl. 311—21)

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This invention relates to a serving tray designed for use in connection with motor vehicles, the primary object of the invention being to provide a serving tray which may be folded into a small and compact article, and of a size which may be swung into or out of the usual glove compartment of a motor vehicle, to meet the requirements of use.

Another object of the invention is to provide a serving tray which may be extended from the glove compartment, and will present a strong and durable structure for supporting glasses, dishes containing foods or the like, while the foods are being consumed.

Still another object of the invention is to provide a tray or shelf which may be readily and easily secured within the usual glove compartment of a motor vehicle, without the necessity of making alterations in the construction of the vehicle to install the tray.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Figure 1 is a perspective view illustrating a serving tray, constructed in accordance with the invention as swung to its outer position for use.

Fig. 2 is a plan view thereof.

Fig. 3 is an edge elevational view of the serving tray.

Fig. 4 is a fragmental perspective view with parts thereof broken away, illustrating the sliding bolt structure used in holding the sections of the serving tray, extended.

Fig. 5 is a perspective view illustrating one section of the tray folded rearwardly, as the first step in folding the tray for positioning within the glove compartment.

Fig. 6 is a perspective view illustrating the second position of the tray sections in folding the tray.

Fig. 7 is a perspective view illustrating the sections of the tray as folded, and in condition for swinging the tray into the glove compartment.

Referring to the drawings in detail, the reference character 5 indicates the conventional glove compartment of a motor vehicle in which the serving tray, forming the subject matter of the

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present invention is mounted for swinging movement into or out of the compartment.

The tray comprises a supporting arm 6 which is in the form of a rod having a flattened upper surface 7 so that the main section 8 of the tray, may be firmly secured to the supporting arm, by means of the screws 9.

The tray also embodies sections 10, 11, and 12, the sections 8 and 12 being connected by means of the hinges 13, which are secured to the upper surfaces of the sections 8 and 12, while the sections 11 and 12 are secured together by means of hinges 14 secured to the under sides of the sections 11 and 12. The sections 10 and 11 are secured together by means of hinges 15 that are secured to the upper surfaces of the sections 10 and 11, along the adjacent edges thereof, the hinges being secured to the sections 10 and 11 by means of the screws 16. The section 8 is provided with a bore extending inwardly from one edge thereof for the reception of the sliding bolt 17, which sliding bolt is adapted to move into the bore 18 formed in the section 10, to connect the sections 8 and 10 to hold them in their extended positions.

The section 12 is provided with a bore 18 extending inwardly from one edge thereof in which the sliding bolt 18' is housed, the sliding bolt being designed to extend into the keeper opening 19 to hold the sections 11 and 12, extended.

Each sliding bolt is formed with a knob 20 by means of which the sliding bolt may be readily manipulated.

The supporting arm 6 has a right angled end portion 21 that fits in the socket 22 forming a part of the plate 23, which plate is secured within the glove compartment of a motor vehicle, as by means of screws 24. This structure assumes a free swinging movement of the supporting arm 6.

When it is desired to extend the serving tray for use, the glove compartment is opened and the tray in its folded condition swung outwardly therefrom.

The sections of the tray are folded from the position as shown by Fig. 7 to the position as shown by Fig. 6, whereupon the sections 10 and 11 are swung upwardly to the positions shown by Fig. 5, from which position the section 10 is pivoted laterally to a position in a line with the section 8. The sliding bolts may now be operated to hold the sections of the tray in their extended positions, so that the plates containing articles of food may be supported thereon for the convenience of the occupants of the motor vehicle.

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It will be seen that when the tray is out of use it will be concealed in the glove compartment protecting the tray against dust or other foreign matter.

Having thus described the invention, what is claimed is:

A folding serving tray for positioning in a glove compartment of a motor vehicle, comprising a supporting arm, a plurality of hingedly connected tray sections, one of said sections being connected to said arm, said sections to fold one upon another providing a compact article, means for securing the tray sections in an extended position for supporting articles thereon, and means for pivotally mounting the supporting arm within the glove compartment.

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