

Sept. 18, 1928.

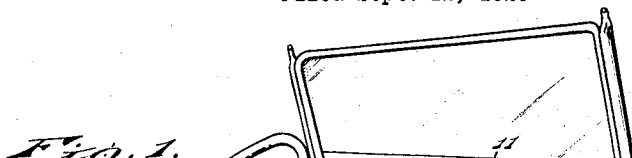
H. W. PRETTYMAN

1,684,682

MAP HOLDER

Filed Sept. 12, 1925

2 Sheets-Sheet 1



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H. W. PRETTYMAN

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Fig. 3.

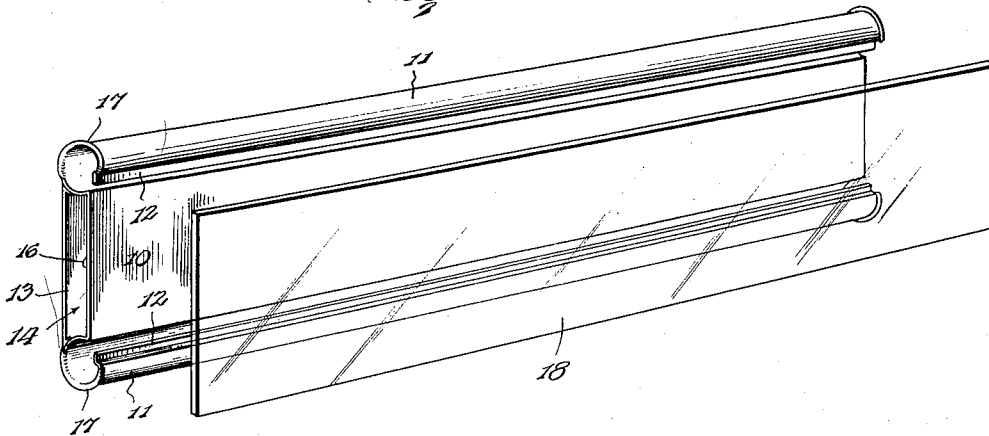


Fig. 4.

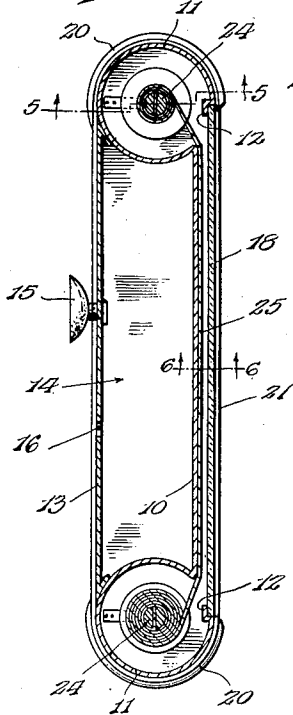


Fig. 5.

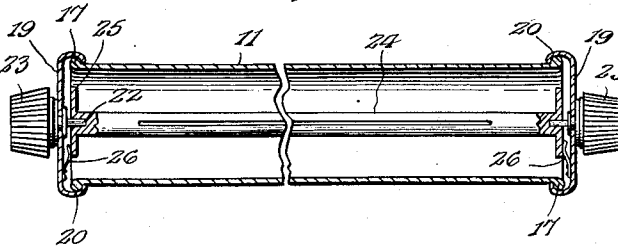
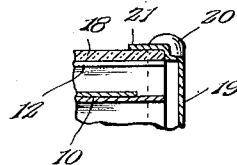


Fig. 6.



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UNITED STATES PATENT OFFICE.

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MAP HOLDER.

Application filed September 12, 1925. Serial No. 56,061.

This invention relates to an improved map holder and seeks, among other objects, to provide a simple and efficient device of this character particularly adapted for use by automobile tourists and which may be readily mounted within a vehicle for conveniently displaying a road map.

The invention seeks, as a further object, to provide a device which will house and protect the map from the wind, dust and weather.

Still another object is to provide a device wherein the map will be carried upon a pair of spools, wherein the map may be readily turned from either spool to the other for disposing the desired portion of the map to view, wherein means will be provided for frictionally braking the spools so that the portion of the map in view will be held taut, and wherein the spools may be removed or replaced.

A further object of the invention is to provide a map holder embodying a novel casing constructed to form a storage compartment for a number of maps or map spools.

And the invention seeks, as a still further object, to provide a map holder which may be easily and economically manufactured.

Other objects of the invention not specifically mentioned will appear in the course of the following description.

In the accompanying drawings:

Figure 1 is a perspective view showing my improved map holder applied to the windshield of a motor vehicle.

Figure 2 is a front elevation of the holder.

Figure 3 is a perspective view particularly showing the casing.

Figure 4 is a transverse sectional view through the holder.

Figure 5 is a horizontal sectional view on the line 5—5 of Figure 4, looking in the direction indicated by the arrows.

Figure 6 is a detail sectional view on the line 6—6 of Figure 4, looking in the direction indicated by the arrows, and particularly showing how the front pane is held in position.

In carrying the invention into effect, I employ an oblong casing, the body of which is preferably formed from a single piece of suitable resilient sheet metal bent to provide a flat bed plate 10 at the edges of which are laterally disposed substantially cylindrical spool containers 11. As shown

in Figure 4, the axes of these containers lie in a plane at the rear of the bed plate 10 while the free margins of said containers lie in a plane forwardly of said plate and are offset to provide flanges 12. Extending between the bottom portions of the containers 11 in parallel relation to the bed plate 10 is a back plate 13 soldered or otherwise secured to the walls of said containers. Thus, the back plate serves to rigidly connect the containers with each other for bracing and supporting said containers against relative movement while, as brought out in Figure 4, a storage compartment 14 is defined between the back plate and the bed plate 10 to receive a supply of maps or map spools. Suitably fixed to the back plate 13, at appropriately spaced points, are preferably rubber suction cups 15 for attaching the device to a pane of glass or the like. However, the back plate is further provided with suitably spaced openings 16 to receive fastening devices for mounting the device, should it be found impracticable to employ the suction cups 15. Formed on the containers 11 at the ends thereof are beads or shoulders 17 which may be produced by rolling the walls of said containers.

Yieldably gripped between the free longitudinal margins of the containers 11 is a front pane 18 which may be of glass or other suitable transparent material, and removably engaged over the ends of the casing are end caps 19 shaped to fit the casing. As shown in Figure 5, these caps are provided with lateral transversely curved flanges 20 to embrace the beads 17 of the containers 11, yieldably cooperating with said beads to secure the end caps upon the casing, and formed on the flanges of the end caps to overlie the end margins of the front pane 18, as shown in Figures 2 and 6, are resilient lips 21 yieldably clamping the front pane against the flanges 12 of the containers. The end caps, like the casing, are also preferably formed of suitable resilient sheet metal and, as will be perceived, by flexing the walls of the containers, the containers may be contracted slightly to free the end caps, when said caps may be readily removed.

Journaled through the end caps 19, at the ends of the containers 11, are pairs of spindles 22 which preferably are permanently secured to said end caps and are provided at their outer ends with knobs 23.

Removably engaged at their ends by said pairs of spindles are spools 24 preferably provided at their ends with circular end plates 25, and fixed to the end caps to coact
 5 at their free ends with said end plates are springs 26 frictionally holding the spools against rotation. As shown in Figure 5, the spools are slotted to receive the ends of a map or other web 25 extending between the
 10 spools across the bed plate 10. However, any other suitable means may be provided for connecting the ends of the map with the spools and, as shown in Figure 4, the portion of the map overlying the bed plate
 15 will, since the spools are frictionally held against rotation by the springs 26, be maintained taut to lie flat against the bed plate beneath the front pane 18 in parallel relation thereto. Such portion of the map will
 20 thus be readily visible through the front pane and, as will be at once understood, by manipulating the knobs 23, the map may be turned from either spool to the other for disposing any desired portion of the map
 25 to view.

As previously intimated, the device is particularly designed for use by automobile tourists and in Figure 1 of the drawings, I have illustrated the device attached to the
 30 windshield pane 27 of a conventional motor vehicle 28. The suction cups 15 are, of course, employed for securing the device to the windshield pane, and, as will be appreciated, the device is thus conveniently
 35 mounted so that the driver of the vehicle may readily view a road map contained by the device while the knobs 23 of the device may be easily reached for shifting the map to expose a desired portion thereof to view.
 40 Having thus described the invention, what I claim is:

1. In a display device, a casing having spaced tubular spool containers connected by an intervening flat bed plate, a back plate
 45 extending between said containers in spaced parallel relation to the bed plate to define an intervening spool storage compartment open at its ends, and freely removable end caps frictionally fitting over the ends of said
 50 containers to extend across the ends of said compartment.

2. In a display device, a single length of material bent to form spaced tubular spool containers connected by an intervening bed plate, a front pane extending between the
 55 ends of said length of material and supported thereby in spaced relation to said bed plate, and end caps fitting over the ends of said containers and securing the front pane in position.

3. In a display device, a casing having spaced spool containers connected by an intervening bed plate, a back plate extending between said containers in spaced relation to the bed plate to define an intervening spool
 60 storage compartment open at its ends, a front pane overlying the bed plate, and end caps engaged with the ends of said containers to extend across the ends of the compartment and provided with portions over-
 65 lying the outer face of said pane for securing the pane in position.

4. In a display device, a casing having spaced spool containers, a separate freely removable front pane, and end caps engaged
 70 with the ends of said containers and providing the sole means of limiting the front pane against outward displacement.

5. In a display device, a casing having spaced spool containers, a freely removable
 80 front pane, and end caps having securing engagement with the ends of the containers and provided with portions overlying the margins of said front pane for securing said
 85 pane in position.

6. In a display device, a casing having spaced spool containers, a freely removable front pane, and freely removable end caps engaged with the ends of said containers and provided with means securing the front pane
 90 in position.

7. In a display device, a casing having spool containers provided near the ends thereof with shoulders, a front pane, and end caps having flanges engaged over the
 95 ends of said containers to cooperate with said shoulders for connecting the end caps with said containers, the end caps securing the front pane in position.

In testimony whereof I affix my signature.

HUGH W. PRETTYMAN. [L. S.]