Nov. 15, 1927.

1,649,607

W. MARSHALL

DECK LID CONSTRUCTION

Original Filed Oct. 13. 1924

Fig. 1.

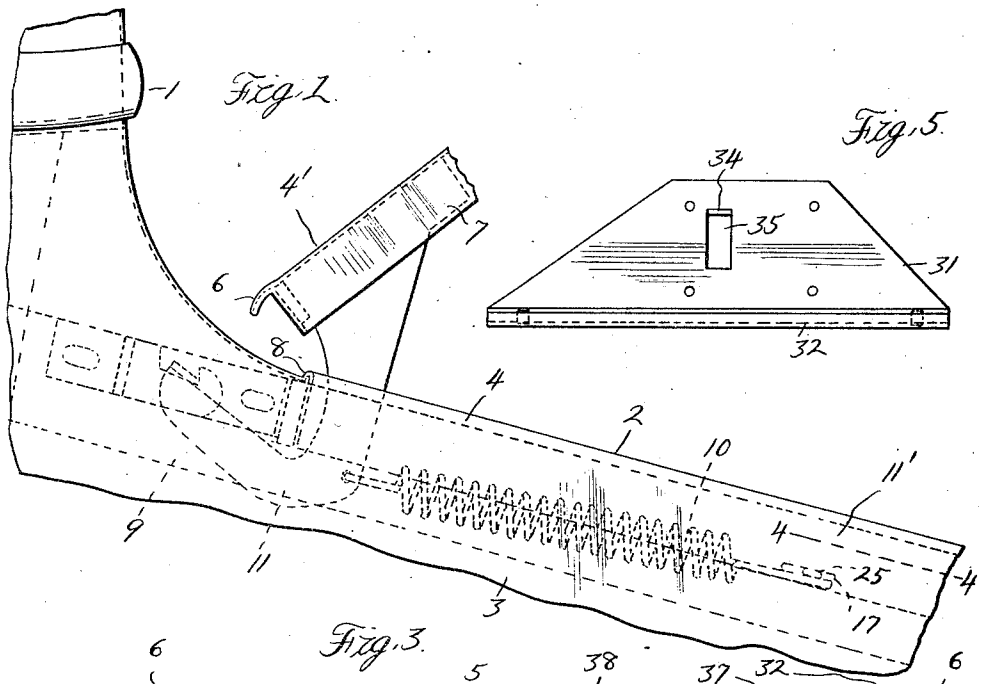


Fig. 5.

Fig. 3.

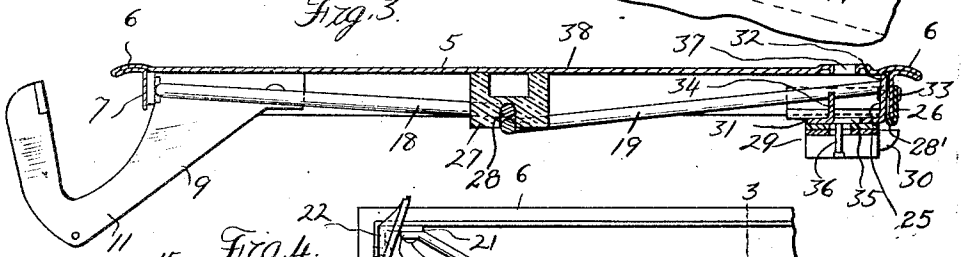
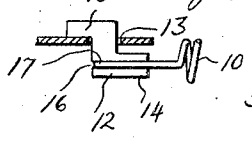


Fig. 4.



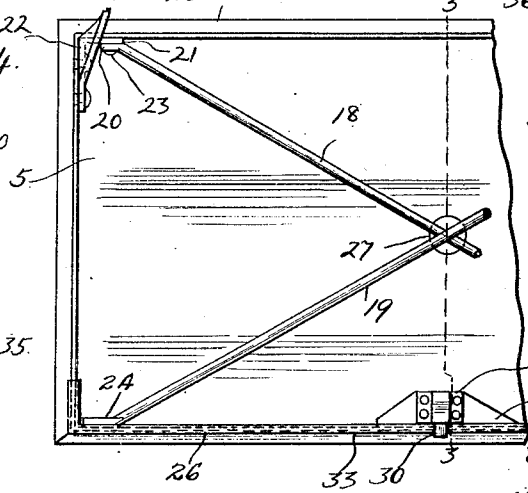
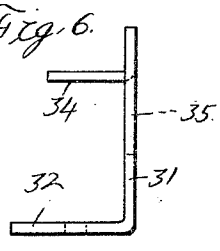


Fig. 2.

Fig. 6.



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UNITED STATES PATENT OFFICE.

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DECK-LID CONSTRUCTION.

Original application filed October 13, 1924, Serial No. 743,442. Divided and this application filed March 23, 1925. Serial No. 17,749.

This application is a division of my copending application for hinge construction for deck lids filed October 13, 1924, Serial No. 743,442, and relates generally to vehicle body deck lids and the like.

One of the essential objects of the invention is to provide a light and durable deck lid that is preferably braced to prevent the same from weaving or twisting, and is also reinforced at the edges and corners thereof by a suitable finish strip which adds materially to the appearance of the lid.

Another object is to provide a lid of this type having simple and reliable counter balancing means which facilitates the upward movement thereof.

A further object is to provide a deck lid and pivot mounting that are simple in construction and may be manufactured at a comparatively low cost.

With the above and other objects in view the invention consists in certain novel features of construction, combinations and arrangements of parts as will be more fully described and particularly pointed out in the appended claims;

In the accompanying drawings;

Figure 1 is a fragmentary side elevation of a vehicle body embodying my invention.

Figure 2 is a bottom plan view of the deck lid.

Figure 3 is a sectional view taken on the line 3—3 of Figure 2.

Figure 4 is a sectional view taken on the line 4—4 of Figure 1.

Figure 5 is a top plan view of the lock attaching plate.

Figure 6 is an end elevation of the plate shown in Figure 5.

Referring now to the drawings in which like characters of reference designate corresponding parts throughout the several views, the numeral 1 designates a vehicle body of the closed type having a rearwardly projecting downwardly inclined deck 2 at the top of the usual luggage compartment 3. For gaining access to the compartment 3 there is a suitable opening 4 in the deck that is preferably normally closed by means of a metallic lid 4′. As shown, this lid comprises a sheet metal panel 5 that is preferably return-bent at its edges to form the laterally extending flanges 6 and the depending flanges 7. When the lid is closed, the depending flanges 7 fit within the openings 4 in the deck, while the lateral flanges 6 overlap the upstanding return-bent edge portions 8 of the opening 4 and thereby form a tight joint between the lid and deck. Any suitable means such as the hinges 9 may be employed for pivotally connecting the forward end of the lid 4′ to the deck 2.

To facilitate the upward movement of the lid I preferably provide suitable counter balancing springs 10 which are preferably terminally connected to the base of the U-shaped member 11 and to the depending flanges 11′ of the deck 2. Any suitable means may be employed for securing the springs 10 to the deck flanges 11′. As shown in Figure 4 of the drawings I preferably provide suitable anchor members 12 that extend through openings 13 in the flanges 11 and are provided at the opposite ends thereof with oppositely projecting laterally extending portions 14 and 15 respectively. The inner lateral portions 15 preferably bear against the inner faces of the flanges 11, while the outer portions 14 are preferably provided with notches 16 which receive the hooked extremities 17 of the springs 10.

To prevent the lid from weaving or twisting when being raised or lowered I preferably provide two metallic rods 18 and 19 respectively that are preferably crossed at the centre of the lid and extend to the corners thereof. As shown in Figure 2, the inner forward ends of the rods are preferably provided with flattened portions 20 that extend at a slight angle thereto and are preferably secured to the laterally extending portions 21 of the hinge parts 22 by the rivets 23 that are used to secure the lateral portions 21 to the inner depending flange 7 of the deck lid. The other ends of the rods are preferably provided with flattened portions 24 that extend at a slight angle thereto and are preferably spot welded to the outer depending flange 7 of the deck lid. To prevent the crossed rods 18 and 19 from rattling I preferably provide a yieldable block or cushion member 27 that preferably engages the inner face of the lid 4′ and is provided with suitable grooves or channels 28 for receiving the rods 18 and 19 respectively. As an added precaution these rods

are preferably welded together at the point of intersection thereof before the resilient block 27 is mounted thereon. To strengthen the lid further, I preferably provide a sheet metal finish strip 26 that preferably extends across the outer end and along the opposite sides of the lid and is provided at its lower edge with a return-bent flange 28' that embraces the lower edges of the outer and side flanges 7 and holds the same together.

Thus the finish strip 26 connects the depending rear and side flanges 7 and thereby materially re-inforces the deck lid in addition to improving the general appearance thereof. Any suitable means may be used to secure the finish strip 26 to the outer and side flanges 7 of the deck lid.

For holding the lid in closed position, I preferably provide a suitable lock 29 having a reciprocatory bolt 30 that is adapted to engage a suitable keeper (not shown) below the deck 2 at the rear edge of the opening 4. For mounting the lock casing upon the lid, there is a metal attaching plate 31 that is preferably secured to the upper face of the lock casing and is provided at its rear edge with an upstanding flange 32 that is riveted to the outer depending flange 7 of the deck lid and to the central portion 33 of the finish strip 26. In order that the proper key (not shown) may be used to operate the lock bolt 30, the plate 31 is preferably provided with a struck-out portion 34 providing an elongated opening 35 which is in alignment with the key opening 36 in the lock casing and a suitable opening 37 in the deck lid 4'.

While it is believed that from the foregoing description, the nature and advantages of the invention will be readily apparent, I desire to have it understood that I do not limit myself to what is herein shown and described, and that such changes may be resorted to when desired as fall within the scope of what is claimed.

What I claim as my invention is:

1. The combination with a vehicle body deck lid, of means for reinforcing said lid including crossed members terminally secured thereto, and a yieldable member engaging said lid and having recesses therein receiving the crossed members aforesaid.

2. A deck lid for vehicle bodies comprising a metal panel having a depending marginal flange, a finish strip extending across the outer end of said lid, and means secured to said marginal flange and finish strip for normally holding the lid in locked position.

3. The combination with a vehicle body deck lid having depending flanges at one end and at opposite sides thereof, a finish strip extending across the outer end of said lid and secured to said flanges and having a return-bent portion embracing the lower edges of said end and side flanges for connecting the same, means for reinforcing said lid including crossed members terminally secured to the side flanges aforesaid, and a yieldable member engaging said lid and having recesses therein receiving the crossed members aforesaid.

4. The combination with a vehicle body deck lid having a depending flange, and a key opening therein, of a lock casing having a key opening in alignment with the key opening in the lid, and means for securing the lock casing to the lid including a plate secured to the lock casing having an upstanding flange secured to the flange on said lid, said plate also having an opening in alignment with the key openings aforesaid.

5. The combination with a vehicle body deck lid having depending flanges at the opposite ends thereof, of means for reinforcing said lid including crossed members terminally secured to said flanges, and a yieldable member engaging said lid and having recesses therein receiving the crossed members at the point of intersection thereof.

6. A deck lid for vehicle bodies comprising a metal panel return-bent at the edges forming laterally extending flanges and depending flanges, a finish strip secured to said lid having a return-bent portion receiving the lower edge of said depending flanges, and means for reinforcing said lid including means extending between the depending flanges and terminally secured thereto.

7. The combination with a vehicle body deck lid, of means secured to said lid for reinforcing the same including crossed members rigidly secured together at the point of intersection thereof, and a yieldable member having one face engaging said crossed members at the point of intersection and another face engaging said lid.

In testimony whereof I affix my signature.

WILLIAM MARSHALL.