Jan. 23, 1934. K. L. HENDERSON 1,944,687

COMBINED CASING AND SUPPORT

Filed May 27, 1933

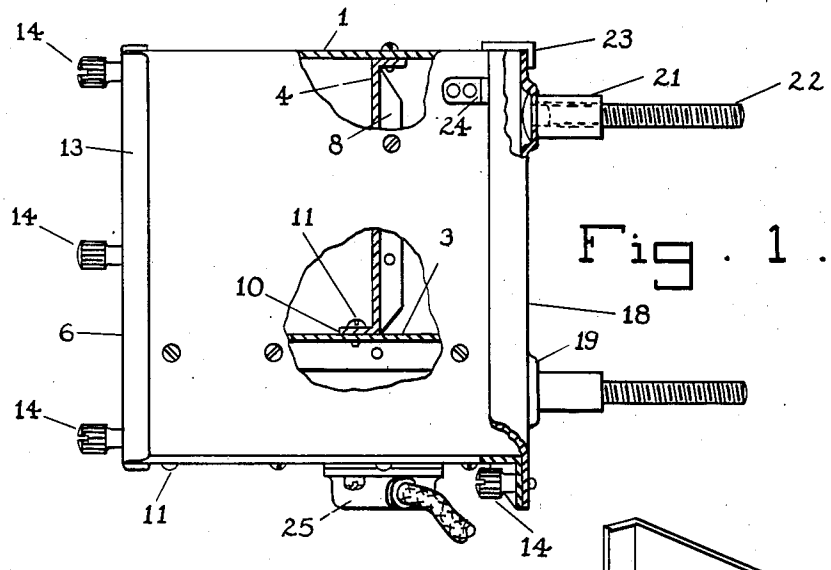


Fig. 1.

Fig. 2.

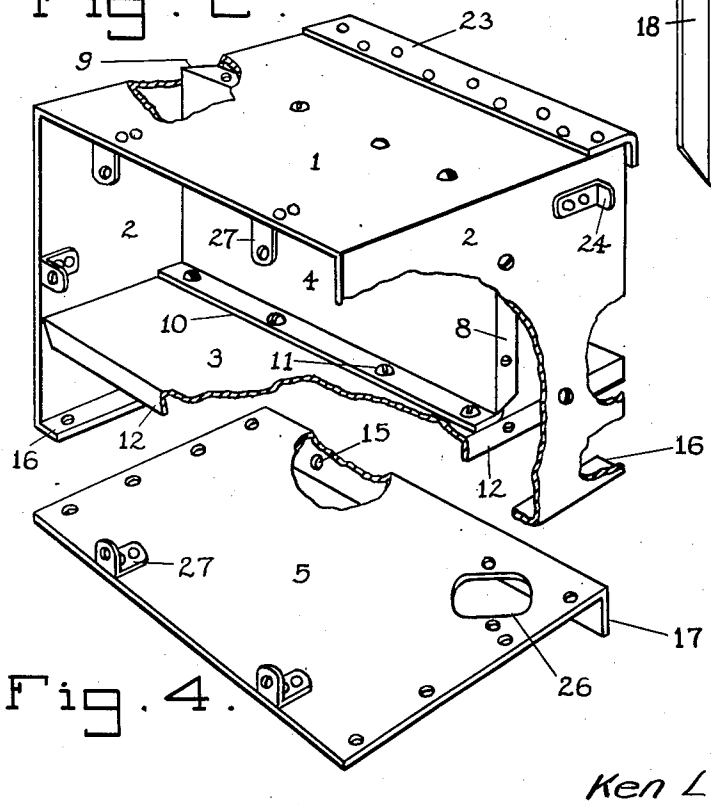


Fig. 4.

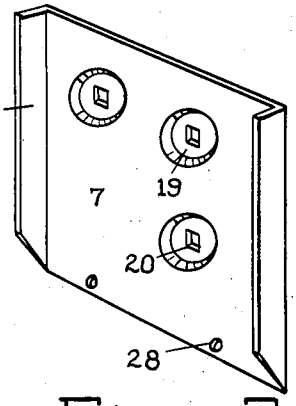


Fig. 3.

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1,944,687

COMBINED CASING AND SUPPORT

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2 Claims. (Cl. 312—7)

My invention relates to improvements in casings and particularly casings designed to be affixed at one side or otherwise to a suitable support.

An object of the invention is to provide a casing especially designed for enclosing the parts of a radio receiver and having portions adapted to enable it to be conveniently secured to the inside of a motor vehicle, as by being affixed to the interior face of a vertical wall or other member thereof.

A further object of the invention is to provide a casing for a radio receiver of such construction that the elements which carry the weight of the casing and contents when it is attached to the support, form parts of the casing itself; so that additional fixtures for holding the casing in place are not required.

Another object of the invention is to provide a casing having a detachable front, end or side which is so shaped that it can be made to serve as a mounting panel which can be made fast to the dash board of a vehicle and enable the body of the casing with the receiver therein to be suspended by means of said front, side or end plate.

These and other objects and advantages of the invention will appear more fully in the ensuing description taken with the drawing which shows the preferred embodiment of my invention; but the disclosure, of course, is explanatory only and changes may be made without departing from the principle of the invention or exceeding the scope of the appended claims.

On the drawing:

Fig. 1 is a side view of a casing according to my invention with parts broken away to show the inside details of construction;

Fig. 2 is a perspective view of the body of the casing broken away in part for the same purpose;

Fig. 3 is a perspective view of the back, side or end which constitutes the mounting panel; and

Fig. 4 is a perspective view of the bottom of this casing.

The same numerals identify the same parts throughout.

The body of the casing is preferably of metal and may be made out of a plate bent to form a top 1 and sides 2, the sides being united within the casing by a shelf or web 3 which is substantially parallel to the top 1 and extends from the front to the back of the casing. The casing also encloses a vertical partition 4 attached to the top, sides and shelf 3 to divide the upper part of the casing into two transverse compartments. Between the shelf 3 and the bottom 5 is another inside space or compartment. The front of the casing is closed by a plate 6 and the rear by a plate or panel 7. The compartment or chamber to the front of the partition 4 may contain the tubes and the partition 4 may carry sockets, not shown, to receive the ends of these tubes; the partition 4 serving as a chassis, and other parts of the set may be attached to this partition and disposed within this rear compartment, if desired. The space at the rear of the partition may receive coils, for example, and the chamber below the shelf 3 may contain appliances associated with the electrical supply circuits. Also partition 4 has a flange at either end, referred to as 8 in Fig. 1 which shows the flange on the far side and as 8 in Fig. 2 which shows the flange on the near side.

The top and bottom of the partition 4 have flanges 9 and 10 respectively which may be secured to the top 1 and shelf 3 by screws or rivets 11. The shelf 3 may have its edges turned down to form flanges 12 having threaded openings to receive the ends of similar screws passed through openings in the sides to engage these flanges. The front closure plate 6 has flanges forming a rim 13 which engages the top, sides and bottom, and this closure plate 6 may have openings to receive thumb screws 14 which engage threaded openings in brackets 27 which may be attached to inside surfaces of top, sides and bottom. Obviously the thumb screws 14 may be used in the number required and placed wherever they may be necessary.

The bottoms of the sides have their edges turned-over to form flanges 16 and the bottom 5 of the casing may be held in place by screws similar to the screws 11 passing through openings in this plate into threaded openings in these flanges. Also the rear closure plate or mounting panel 7 may have threaded openings 28 near its lower edge in line with openings 15 in a down-turned flange 17 along the rear edge of the bottom 5. These two openings 15 are intended to admit thumb screws 14 to engage threaded openings 28 in the rear closure plate 7 to hold the lower end of the casing and the panel 7 together.

The mounting panel 7 has side flanges 18 and counter-sunk projections 19 which are provided with openings 20. At 21 are spacing sleeves in line with the openings 20 and through these openings and spacing sleeves 21 pass fastening bolts or screws 22. These bolts enable the panel 7 to be made fast to the dash board within a vehicle; and secured along the adjacent edge of the top 1 is an angle strip 23 which projects somewhat from the front edge of the top and engages the

adjacent edge of the panel 7. To the sides 2 are fastened angle pieces 24 in position to abut the side flanges 18 of the panel 7. These angle pieces are placed about as far from the adjacent edges of the sides as the width of the flanges 18 and cooperate with the angle plate 23 to cause the body of the casing to engage properly with the top of the mounting plate 7. Current can be led into the casing through suitable plug or plugs 25 which are connected to the bottom 5 by fitting them into holes 26.

To close up the casing the bottom 5 is attached to the flanges 16 and the casing is then hung up by slipping the angle strip 23 over the top of the mounting panel 7 and then putting the thumb screw 14 in place to make fast the flange 17 to the panel 7. The side flanges 18 of the panel 7 then abut the angle pieces 24 and the entire casing is thus made rigid with the panel 7 so that there is no vibration or jarring; and then to close up the front of the casing the plate 6 is put in place with the flanges 13 thereof around the sides enveloping the adjacent edges of the top 1, sides 2 and bottom 5. This plate as already stated is held securely by the thumb screws 14. With this construction, the radio receiver is supported by members which are parts of the casing of the receiver; and except for screws 22 and the fixed elements on the dash board into which these screws are turned, no additional members for attaching the radio receiver and its casing to a suitable support in a vehicle are needed.

Having described the invention, what is claimed is:

1. A casing for a radio receiver comprising a top and sides, a bottom attached to the sides, a front closure for the casing, a rear closure for the casing having side flanges overlapping the sides of the casing, said rear closure having openings for fastening means to attach it to a support and enable it to serve as a mounting panel for the casing, the bottom having a flange to be secured to the rear closure and the top having a projecting angle strip to engage over the upper edge of the rear closure to suspend the casing thereon.

2. A casing for a radio receiver comprising a top, a bottom and sides, a front closure for the casing, a rear closure for the casing having side flanges overlapping the sides, and openings for fastening bolts to attach the rear closure to a support and enable it to serve as a mounting panel for the casing, the bottom having a flange to be secured to the rear closure and the top having a projecting angle strip to engage over the upper edge of the rear closure to suspend the casing thereon, and angle pieces affixed to the sides to abut the side flanges of the rear closure.

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