

## PATENT SPECIFICATION



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### COMPLETE SPECIFICATION

#### Improvements in Sheet Metal Chassis for Radio-Receivers

We, FABBRICA ITALIANA MAGNETI MARRELLI a Societa Anonima organised in accordance with the laws of Italy, of 22, Corso Venezia, Milan, Italy, do hereby  
5 declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 The invention relates to sheet metal chassis for radio receiving sets.

Such chassis usually comprise a sheet metal box whereon supports are fixed for mounting the various components of  
15 the set.

It has also been proposed to mount the components of the receiving set in the interior of a casing constituted by a bent piece of sheet metal, in the walls of  
20 which tongues may be cut and bent for mounting the components of the set.

According to the invention, the chassis is constituted by a piece of sheet metal, one portion of which forms the base and  
25 which, at least on one of the edges of the said portions, is bent to form the support of the base and on another edge is bent from the opposite side in order to form the front panel of the chassis supports  
30 for mounting the several parts and members of the set being obtained by cutting and bending them in and from said sheet metal.

A construction of the invention is represented by way of example in the accompanying drawings, wherein

35 Figure 1 is a perspective view of a complete chassis;

40 Figure 2 is a front view thereof and Figure 3 is a cross-section on the line 3-3 of Figure 2.

As will be seen in these Figures, the chassis is substantially constituted by a bent metal sheet which forms a vertical  
45 wall 1, a horizontal base 2 and a wall 3 directed upwardly and more or less inclined.

To the piece thus constituted are fixed, for instance, by welding or by riveting,  
50 strips 4 which complete the parallelepiped form of the lower portion of the chassis for its support.

The wall 3 which forms a front panel is provided with a large window 5 for  
55 mounting the indicating dial (not

shown), and on the lateral sides are provided holes 6 in which will be supported the operating spindles of components of the set, of which the variable condenser  
7 has been shown for example in Figure 3. 60

For forming the window 5, the wall 3 is cut parallel to the upper and lateral edges and the portion of sheet metal thus detached is sheared at the ends and along  
65 a longitudinal line to provide a smaller flange 8 which is bent on a line parallel to the upper edge and folded down, said flange serving for mounting other components of the set, such as the tuning  
70 indicator and the wave range indicator, disposed behind appropriate windows 9.

For mounting the components or elements of the apparatus, tongues are employed which are produced by cutting  
75 out and bending up portions of the metal at appropriate places of the plate 2, the wall 3 or flange 8.

In the construction shown, there are provided in this way tongues 10 on one  
80 of which is mounted the potentiometer 11, and tongues 10' which serve for example to support the operating spindles. It is also possible to employ the portions of sheet metal corresponding to the windows 9 for forming tongues such as 12. 85

In order to provide a mounting collar for bell-shaped components, such as the shield 13 (Figure 3) for coils and the like, a series of tongues 14 disposed in a circle  
90 may be cut out and bent up, as shown in Figures 1 and 3, from the plate 2.

The position, shape and extension of the flange 8 and the tongues 10, 10', 12 and 14 may be different according to the  
95 case and according to the arrangement of the components of the set on the chassis.

In any case the chassis, with all the supports for the components and elements  
105 of the set forms a single piece of sheet metal which obviates the necessity of making joints by means of rivets or soldering.

Having now particularly described and  
100 ascertained the nature of our said invention, and in what manner the same is to be performed, we declare that what we claim is:—

1. A sheet-metal chassis for radio-re- 105

ceiving sets, characterised in that it comprises a piece of sheet metal, one portion of which forms the base and which is bent on at least one of the edges of the said  
5 portion to form the support of the base and on another edge is bent from the opposite side to form the front panel of the chassis supports for mounting the several parts and members of the set be-  
10 ing obtained by cutting and bending them in and from said sheet metal.

2. A chassis, as claimed in claim 1, characterised in that the portion forming the front panel is provided with a  
15 window and the cut-out tongue is bent from the opposite side around the edge of the portion of the sheet metal forming the plate of the base.

3. A chassis as claimed in claim 1,  
20 characterised in that the piece of sheet metal, in the portion which forms the

base or in flanges formed thereon, is cut to form tongues intended to serve as supports.

4. A chassis as claimed in claim 1, 25 characterised by tongues disposed in circles for forming mounting collars for bell-shaped components.

5. A sheet-metal chassis for radio-re-  
ceiving sets, constructed substantially as 30 described with reference to the accompanying drawings.

Dated this 3rd day of May, 1937.

Fabbrica Italiana Magneti Marelli.  
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[This Drawing is a reproduction of the Original on a reduced scale.]

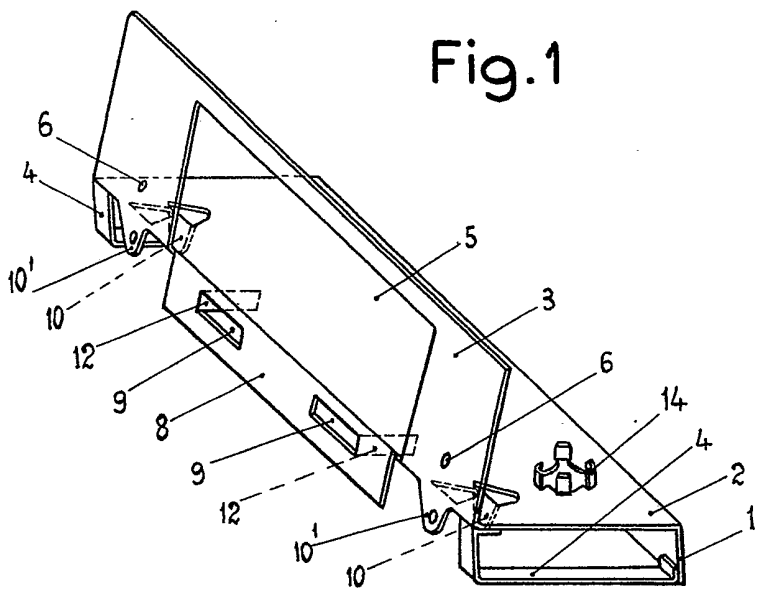


Fig. 1

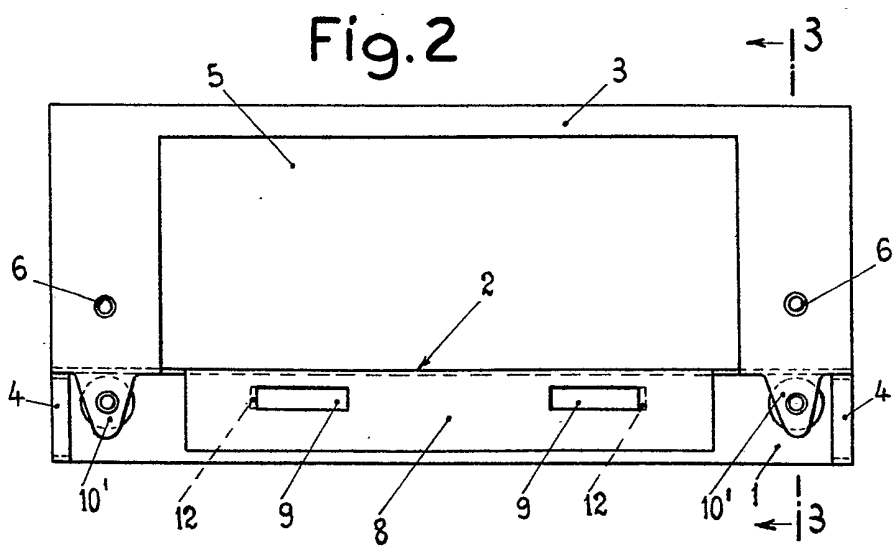


Fig. 2

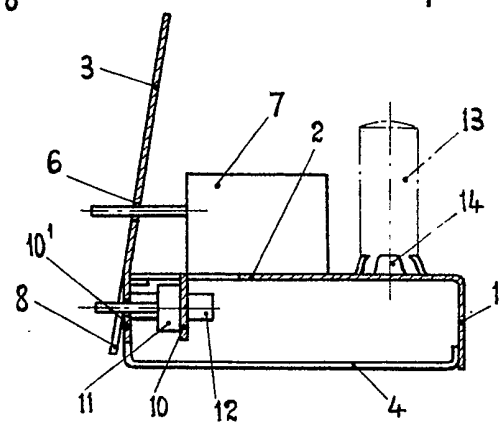


Fig. 3