Feb. 14, 1928. 1,659,309

F. H. AULD

VENEERED PANEL FOR RADIOCABINETS

Filed Sept. 9, 1926

Fig. 1.

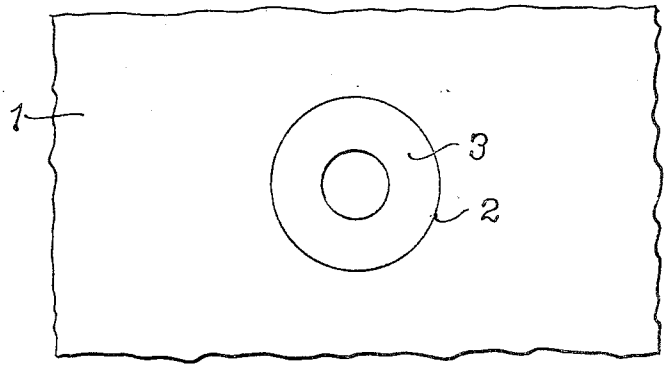


Fig. 2.

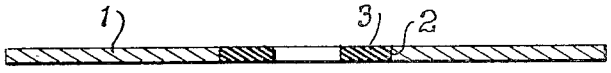


Fig. 3.

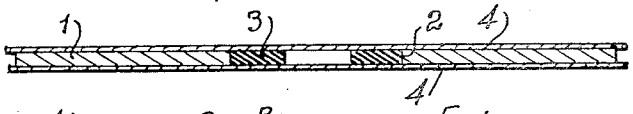


Fig. 4.

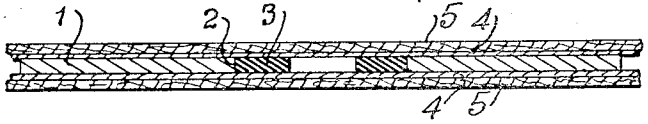


Fig. 5.

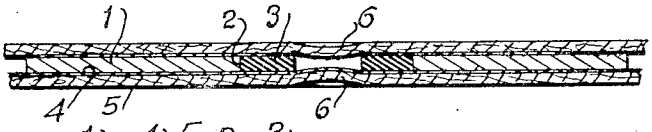


Fig. 6.

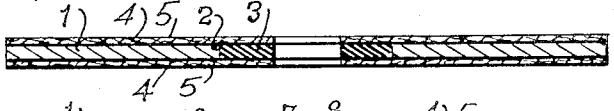
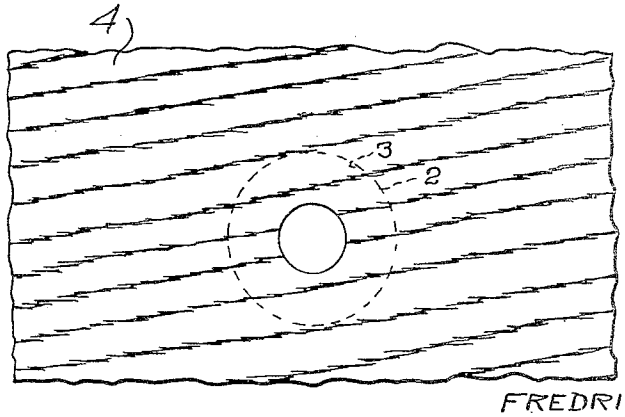


Fig. 7.



Fig. 8



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UNITED STATES PATENT OFFICE.

FREDRICK H. AULD, OF COLUMBUS, OHIO.

VENEERED PANEL FOR RADIOCABINETS.

Application filed September 9, 1926. Serial No. 134,564.

This invention relates to an improved article comprising a veneered panel for radio cabinets.

This invention comprises a radio cabinet panel and consists of a laminated structure made of a metal core or support and of veneer coverings, and characterized by one or more orifices which are insulated by an insulation fitted in an opening or openings in the metal portion and held in place and finished off on the surfaces of the insulation by the overlaying of it with the veneers; the inner veneer protecting the metal from electrical contact with the radio mechanism and the outer veneer affording a surface susceptible of an ornamental finish.

Such, in brief, is the nature and character of my improved radio cabinet panel. The insulated bushings are for the passage of certain electrified rods which form a part of the radio mechanism and which rods must be insulated from the metallic portion of the panel.

In the accompanying drawings:

Fig. 1 is a plan view of a metal support or plate having an orifice provided with a bushing of insulating material.

Fig. 2 is a central longitudinal section through such plate;

Fig. 3 is a similar section, with an adhesive applied to each surface.

Fig. 4 is a like view to Fig. 3 with wood veneer applied.

Fig. 5 is a like view to Fig. 4 after subjected to pressure, showing the veneer slightly depressed at the opening in the bushing;

Fig. 6 is a like view to Fig. 5 after the surfaces have been smoothed off;

Fig. 7 is a like view to Fig. 4 showing a modified form of bushing.

Fig. 8 is a face view of the finished article.

I will not describe in detail the method of producing the article, but merely refer generally thereto, as the method here used is fully set forth in my application for patent filed Jan. 11, 1926, Ser. No. 80483.

Referring to the drawings, 1 indicates a support or plate of metal having an orifice 2 in which is fitted a bushing 3, of insulating material, such as phenolic condensation products or fiber, said bushing being flush with the surfaces of the plate. In Fig. 3 the plate has applied to each side thereof a suitable adhesive 4, such as acetone or a thin sheet of celluloid saturated with acetone, upon which a thin sheet of wood veneer 5 is laid, as shown in Fig. 4. The article thus fabricated is placed in a press and the platen operated to exert a strong compressive force on the wood veneer and metal base, say from 150 pounds to the square inch to 1000 pounds, according to the conditions. This pressure is maintained from two to ten minutes which gives time for the adhesive material to dry and firmly unite the wood veneer to the metal plate and insulating bushing. Heat may also be introduced into the platen during the compression period to aid in uniting the several elements. Fig. 5 illustrates the article as it appears upon being removed from the press, the wood veneer having entered the opening in the bushing and caused depressions 6 in the surfaces of the wood veneer. To give the article the desired smooth finish the veneer is then subjected to grinding, the resulting product being shown in Fig. 6. The panel thus formed is strong by reason of the metal core or support, the veneer on either side thereof forming an inner surface with the necessary insulation characteristics and an outer surface capable of an attractive finish, the insulated bearings in the orifices affording proper insulation for any rod forming a part of the radio mechanism projected therethrough.

In Fig. 7 I have shown a modified form of bushing consisting of thin sheets, 7, of wood veneer secured together by a thin sheet, 8, of celluloid, or other adhesive having insulating characteristics.

The advantages of my improved radio panel are cheapness in production and durability combined with a surface capable of ornamental finish.

It will be understood that I desire to comprehend within my inventions such modifications as may be necessary to adapt it to varying conditions and uses.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. The herein described radio cabinet panel consisting of a metal support having an opening, an insulation fitted in said opening, and a wood veneer finishing sheet overlying the metal and the insulation and adhesively united to them, and having its exposed surface finished off.

2. The herein described radio cabinet panel consisting of a metal support having

an opening, an insulation fitted in said opening, and wood veneer finishing sheets overlying the metal and the insulation on both sides of the support and adhesively united thereto, and having their exposed surfaces finished off.

3. The herein described radio cabinet panel consisting of a metal support having an opening, a bushing of insulating material fitted in said opening, and veneer sheets overlying and adhesively united to said metal and bushing and having its exposed surfaces finished off, one of said veneer sheets forming an insulation between the metal and the radio mechanism and the other sheet the exposed surface of the panel.

4. The herein described radio cabinet panel comprising a metal support having an opening, an insulation fitted in said opening, and a veneer finishing sheet overlying the metal and the insulation and adhesively united to them and having its exposed surface finished off, the layers of the panel being adhesively united by a sheet of celluloid interposed between them.

5. The herein described radio cabinet panel comprising a metal support having an opening, an insulation fitting in said opening, and veneer finishing sheets overlying the metal and the insulation on both sides of the support and adhesively united thereto and having their exposed surfaces finished off, the layers of the panel being adhesively united by a sheet of celluloid interposed between them.

In testimony whereof, I affix my signature.

FREDRICK H. AULD.