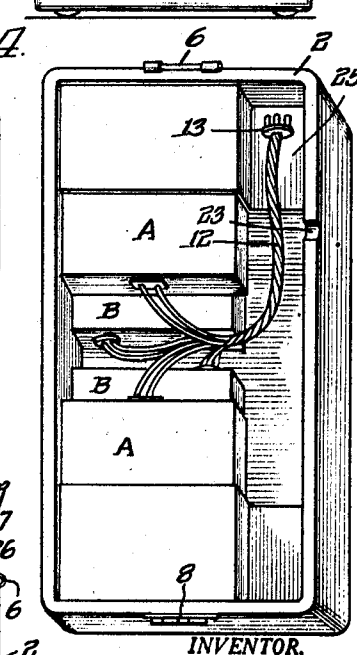
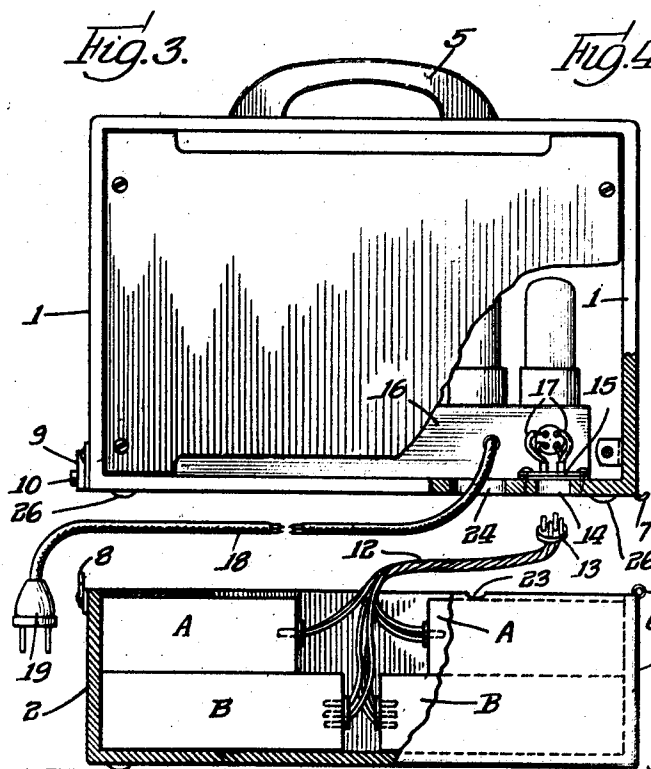
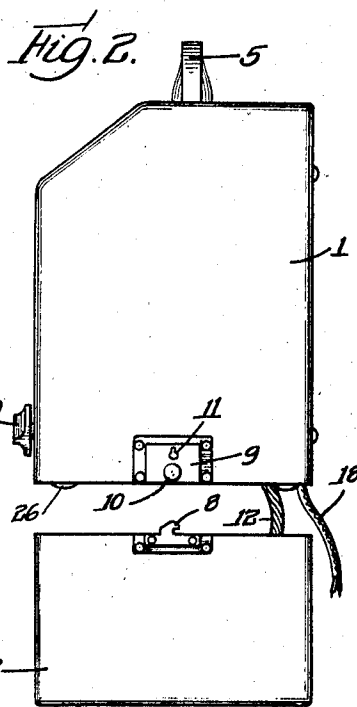
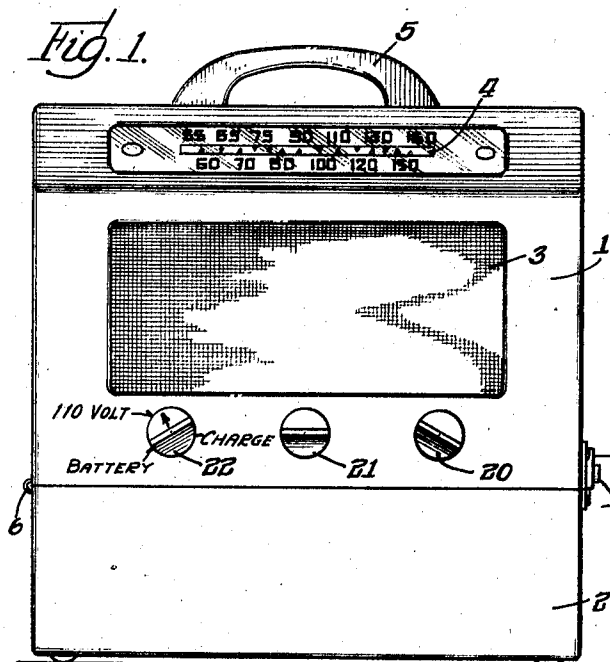


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C. P. GALLOWAY
 CONVERTIBLE RADIO CABINET

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CONVERTIBLE RADIO CABINET

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This invention relates to portable radio receivers and is particularly concerned with the type in which the circuits are adapted to be operated either by batteries carried in the portable cabinet which houses the receiving apparatus, or by means of a connection to a standard house-lighting current.

One object of the invention is to provide a cabinet for a portable radio composed of two parts detachably connected together, with the radio receiver mounted in one part and with the portable batteries disposed in the other part and connected to the receiver by means of a suitable conductor cable and separable plug.

Another object of the invention is to provide a portable radio receiver with a detachable battery compartment and with a conductor cable permanently associated with the receiving apparatus and provided with a suitable plug for engagement in the outlet of a house-lighting circuit for operating the receiver when it is detached from the battery compartment.

It is also an object of the invention to provide a portable radio receiver which includes a two-part cabinet with the radio receiving apparatus mounted in one part and with batteries therefor in the other part, together with a cable extending from the radio receiver and adapted to be accommodated in the battery compartment when the radio is battery-operated, but to be extended for connection with an alternative source of current at will.

Other objects and advantages of the invention will appear from the following description taken in connection with the drawing, in which:

Fig. 1 is a front elevation of a convertible radio cabinet embodying this invention.

Fig. 2 is an end elevation of the same showing the battery compartment separated from the other compartment which contains the radio receiver.

Fig. 3 is a rear elevation showing the two sections of the cabinet separated and with the rear wall of each section partially broken away to show interior features of construction.

Fig. 4 is a top plan and perspective view of the battery compartment as it appears when detached from the other portion of the cabinet.

While there is shown and described herein certain specific structure embodying the invention, it will be manifest to those skilled in the art that various modifications and re-arrangements of the parts may be made without departing from the spirit and scope of the invention, and that the same is not limited to the particular form

herein shown and described, except in so far as indicated by the appended claims.

The portable cabinet chosen to illustrate this invention is shown in Fig. 1 as comprising an upper section or compartment 1 and a lower section or compartment 2. The upper section contains the radio receiving apparatus with the usual detecting and amplifying units and with a loudspeaker unit which may be understood as disposed back of the grille 3. A horizontally extended tuning scale or dial is indicated at 4 and a carrying handle 5 is rigidly secured to the upper wall of the top section 1. The two cabinet sections are detachably connected by means of a separable hinge at one end of the cabinet and a suitable lock or latch at the other end. The hinge includes a pintle member 6 attached to the lower section 2 and an upwardly open hook-shaped member 7 attached to the upper section 1 and engageable with the pintle when the upper section is rocked at about 90° from its normal position and then swung back so that the hook-like member 7 serves as a hanger to support the pintle 6 and the cabinet section 2. The latch includes an upstanding hook or tongue 8 which is rigidly attached to the end wall of the cabinet section 2 and which is insertable within the lock casing 9 attached to the section 1. The latch mechanism may be of any suitable type, preferably spring operated, and retractable by means of a slidable button 10 exposed outside the casing 9. If desired, the casing 9 may include a key slot 11 for operation of any suitable locking mechanism by a key insertable therein.

Fig. 3 shows the usual "A" batteries A—A and the usual "B" batteries B—B disposed in the lower compartment 2 with a cable 12 of conductor wires leading from the several units of the battery and terminating in a four-pronged plug 13. The upper compartment or section 1 of the cabinet includes a bottom wall having an opening 14 directly over which there is mounted a socket or receptacle 15 adapted to receive the prongs of the plug 13 for making connection between the "A" and "B" batteries and the radio receiving apparatus. Fig. 3 shows a portion of the apparatus mounted on the usual chassis 16 with lead wires 17 extending into the chassis from the socket 15 for connection with the circuit or circuits of the radio receiving apparatus in any suitable and well understood manner.

As already noted, the receiver is of the type adapted to be operated either by portable batteries or from a standard house-lighting current and, accordingly, there is shown extending from

the chassis 16 a current supply cable 13 terminating in a plug 19 of the type adapted for insertion in a standard outlet socket or receptacle of a house-lighting circuit. As shown in Fig. 1, the upper section 1 of the cabinet supports a tuning knob 20, a switch and volume control knob 21, and a selector knob 22. The knob 22 may be understood as arranged for operating a switch located inside the cabinet 1 for selectively connecting the circuits of the radio receiver either with the "A" and "B" batteries by way of the cable 12 and socket 17, or with the cable 13 for operation from a house-lighting circuit. The specific construction of this switch forms no part of the present invention and it is therefore unnecessary to illustrate it. It will be understood that at one position of rotative adjustment the knob 22 will set the switch for operation of the radio receiver from the batteries, and at a different position of rotative adjustment said knob will set the switch for operation of the receiver by current supplied through the cable 13. If desired, the switch may have a third position of adjustment in which the current supplied through the cable 13 will serve to recharge the "A" and "B" batteries, and since, for this purpose, the lower cabinet section 2 will remain attached to the upper section 1, the rear wall of the section 2 may have a notch 23 adapted to accommodate the cable 13 so that it may extend from the chassis 16 downwardly through the opening 24 in the bottom of the cabinet section 1 and thence outwardly between the two cabinet sections by way of the notch 23.

With the structure as described, it may be understood that when the radio is to be operated by its "A" and "B" batteries, the plug 13 will be inserted in the socket 15 and the battery case 2 will be attached to the radio compartment 1 by means of the hinge 6, 7 and latch 8, 9. Fig. 4 indicates that the battery case 2 includes a space 25 extending longitudinally and adjacent the rear wall so that it is directly below the opening 24 and provides a convenient storage space for the flexible cable 13 which may be six or eight feet in length and which is normally out of service when the battery case 2 is attached to the upper compartment 1. With the parts thus arranged, the radio will operate independently of any external source of current and can be taken on vacation or week-end trips, and can be employed in places where electric current is not readily available. But when it is convenient to operate the radio from a house-lighting circuit there is no need of keeping the battery compartment 2 attached to the compartment 1, and it may be readily disconnected by releasing the tongue 3 from the latch or lock at 9 and then swinging the upper section 1 through a sufficient angle for unhooking the part 7 from the pintle 6 of the hinge. The plug 13 will then be withdrawn from the socket 15 and the short cable 12 will be dropped into the space 25 of the case 2, while the long cable 13 will be removed therefrom and extended for insertion of its plug 19 in a suitable outlet. The upper section 1 of the cabinet includes supporting feet 26 secured to its bottom wall and providing clearance between said wall and a supporting surface to accommodate the cable 13 when said cable is thus extended in service.

I claim as my invention:

1. A portable radio set comprising a two-part cabinet, a radio receiver mounted alone and without a current supply source in one part, a cur-

rent supply cable leading from said receiver and terminating outside the cabinet in an attachment plug, a battery suitable for operating the receiver and housed in the other cabinet part, a conductor cable leading from said battery and terminating in a detachable connecting plug, and a socket for said connecting plug wired into the receiver circuit and mounted in the first-mentioned cabinet part, together with fastening means connecting the two cabinet parts in adjoining relation, said means being releasable at will and the connecting plug being detachable for separating the battery and its cabinet from the other cabinet part when the radio is to be operated from an outside current source through the supply cable and its plug.

2. A portable radio set comprising a two-part cabinet, a radio receiver alone mounted in one part, a current supply cable leading from said receiver and terminating outside the cabinet in an attachment plug, a battery suitable for operating the receiver and housed in the other cabinet part, a conductor cable leading from said battery and terminating in a detachable connecting plug, and a socket for said connecting plug wired into the receiver circuit and mounted in the first-mentioned cabinet part, together with releasable fastening means connecting the two cabinet parts in adjoining relation with a wall of one part disposed as a partition between them, said wall having an opening through which said connecting plug may be inserted into said socket or withdrawn therefrom.

3. In a portable radio set, a cabinet with a radio receiver alone mounted therein and a current supply cable extending from said receiver and terminating outside the cabinet in an attachment plug, an upwardly open portable battery tray with detachable fastening means securing said tray against the bottom wall of said cabinet, a battery in said tray suitable for operating the radio receiver as an independent and alternative current supply, conductor wires leading from said battery and means for detachably connecting them to the receiver, the bottom wall of the cabinet in which said receiver is mounted having an opening through which said conductor wires may be extended for such connection to the receiver.

4. In a portable radio set, a cabinet with a radio receiver alone mounted therein, a current supply cable extending from said receiver and terminating outside the cabinet in an attachment plug, an upwardly open portable battery tray with detachable fastening means securing said tray against the bottom wall of said cabinet, a battery in said tray suitable for operating the radio receiver as an independent current supply, conductor wires leading from said battery and terminating in a connecting plug, and a socket to receive said connecting plug mounted in said cabinet and wired to the receiver, the bottom wall of the cabinet having an opening at which said socket is mounted and exposed toward the battery cabinet to receive said plug.

5. In a portable radio set as defined in claim 3, said tray having space available for storage of the said current supply cable and its attachment plug when the tray is secured in place against the bottom of the cabinet for operation by means of the battery in the tray.

6. In a portable radio set as defined in claim 3, said current supply cable extending from the receiver through an opening in the bottom wall of the cabinet, and the tray having a space directly

under said opening and dimensioned to serve for storage of the cable and its attachment plug when the tray is secured in place against the bottom of the said cabinet.

7. In a portable radio set as defined in claim 3, 5
said current supply cable extending from the receiver through an opening in the bottom wall of the cabinet, said cabinet having feet which elevate the side walls sufficiently from a supporting surface to provide clearance space through 10
which said cable can extend laterally from the cabinet, said feet being positioned to extend within the upwardly open tray when it is secured in place against the bottom wall of the cabinet, said tray having space available for 15
storage of said current supply cable and its attachment plug when said cable is not in service.

8. A portable radio set comprising a two-part cabinet with means detachably connecting the two parts, radio receiving apparatus in one part, 20
a battery in the other part, separable conductor means connecting the battery with said radio apparatus, and a current supply cable extending from said radio apparatus and terminating outside the cabinet in a plug adapted to fit in a 25
house current outlet, together with a selector switch mounted on the cabinet part which contains the radio apparatus, said switch being arranged to connect said apparatus either with the cable or with said conductor means, said other 30
part of the cabinet providing space for storing the cable when it is out of service.

9. In combination, a radio cabinet containing a radio receiver only, a battery cabinet detachably secured to said radio cabinet and portable 35

therewith, batteries in said battery cabinet, conductor wires leading from said batteries and terminating in a detachable plug, a socket for said plug in the radio cabinet exposed toward the battery cabinet when said cabinets are secured together, conductors permanently connecting said socket to the various circuits of said receiver, and a cable also connected to said circuits and extensible from the radio cabinet, said cable terminating in an attachment plug adapted for insertion in a house current outlet, the radio receiver including a selector switch adjustable for connecting its circuits either with the said socket for battery operation or with the said cable for operation from the house current.

10. In combination, a radio cabinet containing a radio receiver only, a battery cabinet detachably secured to said radio cabinet and portable therewith, batteries in said battery cabinet, conductor wires leading from said battery and terminating in a detachable plug, a socket for said plug in said radio cabinet, conductors permanently connecting said socket to the various circuits of said receiver, and a cable also connected to said circuits and extensible from the radio cabinet, said cable terminating in an attachment plug adapted for insertion in a house current outlet, together with a selector switch in the radio receiver circuit adjustable for connecting the receiver either with said socket for battery operation or with said cable for operation from the house current, or for connecting said battery with said cable in charging relation to a house current supply.

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