

Sept. 4, 1928.

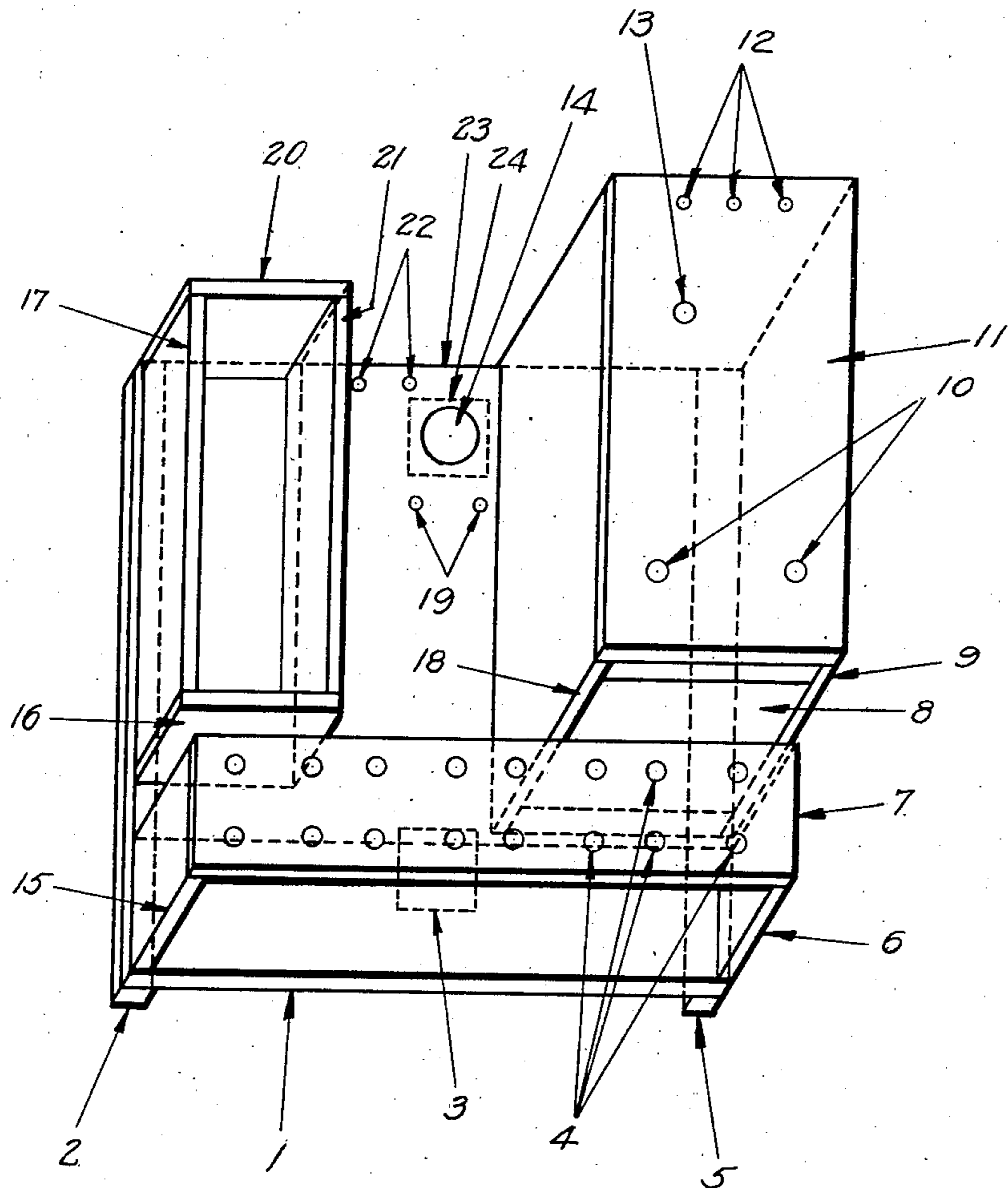
P. E. EDELMAN

1,682,778

RADIOCHASSIS

Original Filed June 5, 1922

2 Sheets-Sheet 1



INVENTOR
Philip E. Edelman

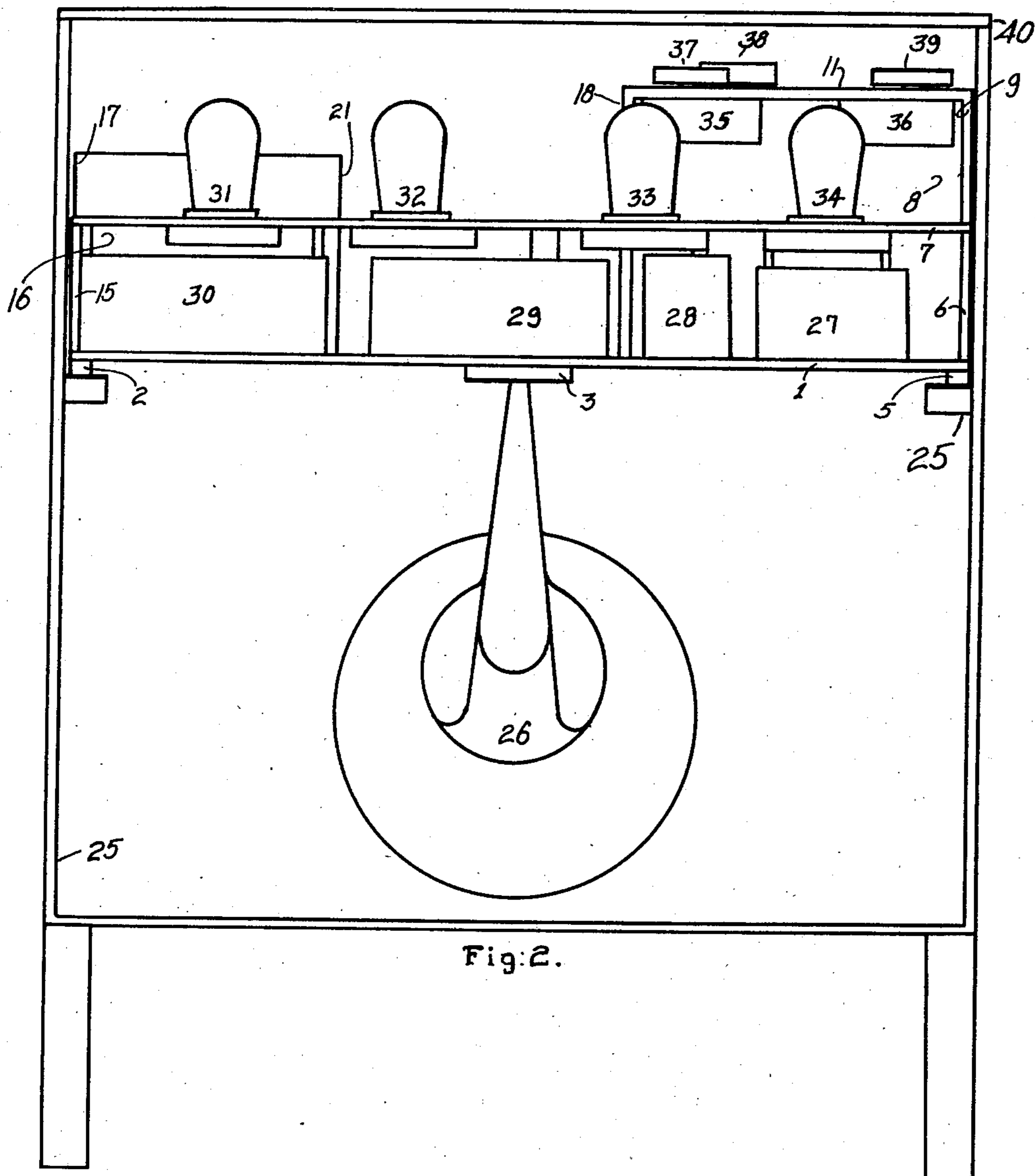
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UNITED STATES PATENT OFFICE.

PHILIP E. EDELMAN, OF CHICAGO, ILLINOIS.

RADIOCHASSIS.

Original application filed June 5, 1922, Serial No. 566,132. Divided and this application filed November 28, 1927. Serial No. 236,389.

My present invention is divided from my original application Serial No. 566,132 filed June 5, 1922, and relates to a mounting chassis or support tray for assembly of radio apparatus whereby the assembly is facilitated with marked improvement in simplicity of assembly and mechanical strength thereof permitting the various elements of a radio receiver to be supported on a common base. I attain these objects by providing a chassis or supporting tray and illustrate a suitable embodiment thereof by way of example in the accompanying drawings of which Figure 1 is a perspective view, and Figure 2 a rear elevation view of the chassis of Figure 1 assembled with apparatus parts in a cabinet. Various changes from the specific showing may be made within the scope of the appended claims.

Heretofore it has been the practice in this art to employ radio apparatus parts scattered in separate units and wired therebetween. I have conceived that marked improvement can be attained by a grouped mounting for the various apparatus units and power supply therefor and provide a common chassis arranged to permit short wiring between the parts with all of the vacuum tubes of the radio set provided with a common mounting strip or shelf.

The base 1 has re-inforcing strips 2 and 5 along two sides thereof as shown, also supporting feet 3 and 24. Flanges 15 and 6 extend upwards from base 1 and hold strip 7 to form a shelf. Strip 7 is provided with mounting holes 4 shown by way of example to accommodate four standard radio vacuum tube base sockets in line along said shelf 7, permitting the circuit parts connecting with said sockets to be mounted directly below strip 7 between flanges 15 and 6. Base 1 also supports a tray portion 17 for holding a power supply device to actuate said vacuum tubes mounted on shelf 7. The rear end of tray 17 is 20, the front end thereof 16, and the side thereof is 21. Holes 22 in base 1 are made to accommodate binding post terminals. The various apparatus parts are not shown as the use is obvious to anyone skilled in this art and this invention relates to the chassis or supporting base per se. A hole 14 in base 1 and block 24 will accommodate a reproducer unit, the connecting wires of which can be accommodated by holes 19.

Two flanges 18 and 9 support a shelf strip 11 from the base 1. Strip 11 has binding post holes 12 and apparatus mounting holes 13, and 10 so that apparatus parts cooperating with other parts mounted on base 1 can be mounted below shelf 11, leaving a channel 8 thru which connecting wires therebetween may be passed. The rear end 23 of base 1 can also be considered as the front end, as the base 1 is adapted to be inserted in a cabinet for easy removal from either front or back. Any suitable radio apparatus parts to comprise a radio receiver can be mounted on said chassis retaining the advantages set forth permitting successive vacuum tubes and circuits thereof to be wired in line on shelf 7 with a minimum of wiring to the other parts supported by base 1. By such construction the radio set supported by such a chassis support 1 is able to withstand damage or breakage otherwise likely to occur in transportation, also long wire connections between the parts are avoided. While various modifications may be made within the scope of the appended claims it is very advantageous to retain the idea of a common mounting strip for holding the vacuum tubes and parts connected thereto in line, the linear relation along strip 7 permitting the shortest possible wiring between said parts.

An exemplification of the use of the chassis of Figure 1 is shown in Figure 2. Base 1 is held in cabinet 25. The various apparatus parts 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, respectively, are supported via chassis base 1 as indicated. Cover 40 of cabinet 25 permits accessibility to said supported apparatus part for manipulation thereof when cover 40 is raised from cabinet 25.

Vacuum tubes 31, 32, 33, 34 are linearly disposed on shelf 7 while apparatus parts 27, 28, 29, and 30 are supported directly below shelf 7 and held in relation thereto by shelf 7 so that a minimum length of connecting wire is required.

Base 1 can be easily removed from cabinet 25 for inspection without disconnecting the said apparatus parts 27, 28, etc.

Base 1 with its assembled parts can be prepared at a radio factory while cabinet 25 is separately shipped from a furniture factory, so that assembly of the chassis in the cabinet can be quickly made or interchanged in different cabinets. The apparatus parts 27, 28 etc. are securely held by chassis base 1 and protected from damage in shipping. The

novel arrangement set forth permits wiring and repairs to be quickly made.

I claim:

1. In a radio apparatus chassis, a support-
5 ing base, a mounting plate for apparatus
parts supported on said base, and a vacuum
tube supporting strip extending linearly
along said base and supported thereby.

2. In a radio apparatus chassis, a base, feet
10 strips reinforcing said base, a vacuum tube
socket support strip linearly disposed and
supported on said base, and a cooperating
apparatus mounting strip held on said base
near to said linearly disposed strip.

15 3. In a radio apparatus chassis, a base for
supporting apparatus parts of a radio set
and a power supply therefor, reinforcing
strips disposed at the ends of said base, a tray
portion comprised with said base at one end
20 thereof for holding a power supply device,
an apparatus mounting plate extending from
another end of said base and supported there-
by, and a vacuum tube shelf strip linearly
disposed adjacent to said mounting plate and
25 tray portion and supported on said base.

4. In a radio apparatus chassis, a base,
flanges supported thereby, a vacuum tube
support shelf supported by said flanges, and
an apparatus mounting plate supported by
flanges fastened to said base and adjacent to
said support shelf. 30

5. In a radio apparatus chassis, a base,
flanges extending vertically therefrom,
mounting strips supported on said flanges,
and cooperative mounting holes formed in
said strips whereby both top and bottom sur-
faces thereof may be used as supporting sur-
faces. 35

6. In a radio apparatus chassis, a base, ver-
tical flanges carried by said base, mounting
strips supported on said flanges, and mount-
ing holes formed in said strips, the relative
position of said strips and flanges being pro-
portioned to form an open channel portion
for wires connected between apparatus parts
mounted on said mounting strips. 40

In witness whereof I have hereunto set my
hand this 13th day of August, 1927. 45

PHILIP E. EDELMAN.