

Aug. 25, 1931.

A. ARIAS

1,820,643

AERIAL DEVICE

Filed Nov. 3, 1930

Fig. 1.

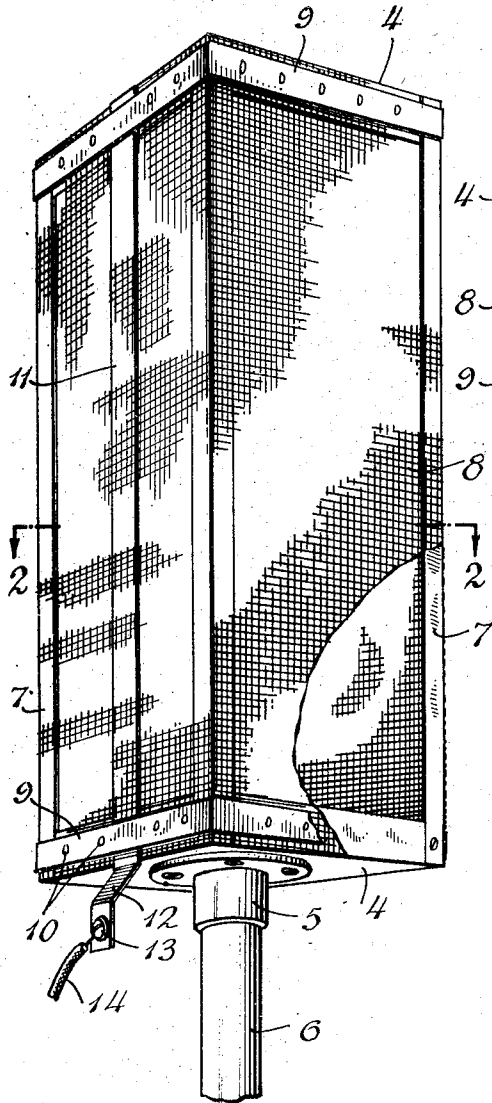


Fig. 2.

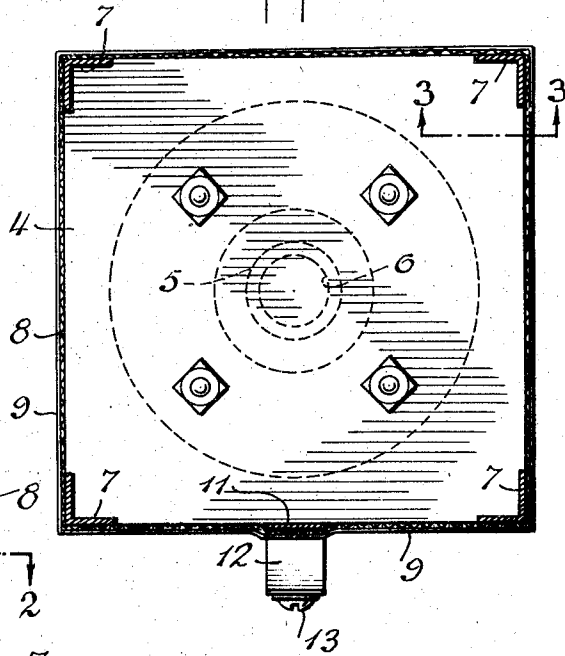
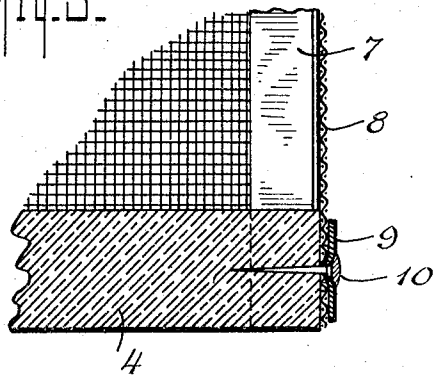


Fig. 3.



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AERIAL DEVICE

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This invention relates to improvements in radio receiving apparatus, and has particular reference to an aerial device.

An object of the invention is to provide
5 an improved aerial of simple and practical construction which will operate to effectively intercept the radio frequency waves.

The above and other objects will appear more clearly from the following detailed
10 description, when taken in connection with the accompanying drawings, which illustrates a preferred embodiment of the inventive idea.

In the drawings—

15 Figure 1 is a perspective view of the improved aerial constructed in accordance with the invention;

Figure 2 is a section on the line 2—2 of Figure 1; and

20 Figure 3 is a section on the line 3—3 of Figure 2.

Referring more particularly to the accompanying drawings, the aerial device is shown as a box-like construction comprising the
25 end members 4, one of which has a socket 5 for receiving a standard 6 upon which the device is mounted. The body of the device is completed by connecting the four corners of the end members with the longitudinal
30 connecting bars 7 which are angular in cross-section, said end members and bars being made of insulating material.

The aerial 8 is formed from a single sheet of foraminous material having the required
35 conducting qualities. Said sheet is extended circumferentially around the body of the device and is secured in position thereon by means of straps 9 laid over the ends of the aerial and fixed to the end members 4 by
40 means of fasteners 10. The meeting ends of the aerial are overlapped and secured together by a conducting strip 11 which extends the length of the body of the device and is also affixed to the straps 9. In order
45 to provide for the attachment of a lead-in conductor to the device, the strip 11 has an extension 12 which projects beyond one of the end members 4 and carries a screw 13 by means of which the conductor 14 is
50 attached to the strip.

What is claimed is:

An aerial device comprising a body consisting of end members, longitudinal bars connecting said end members, a sheet of
55 foraminous conducting material surrounding said body between said end members, straps for attaching said material to the end members, and a conducting strip to which the meeting ends of said sheet of material are affixed, said strip extending the length of
60 said body and having an extension projecting beyond one end of the latter for attachment to a lead-in conductor.

In testimony whereof, I have affixed my
signature.

ARGIMIRO ARIAS.

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