Oct. 18, 1932. F. W. BONDAY 1,883,508

AERIAL SUPPORT

Filed Feb. 6, 1930

Fig. 1.

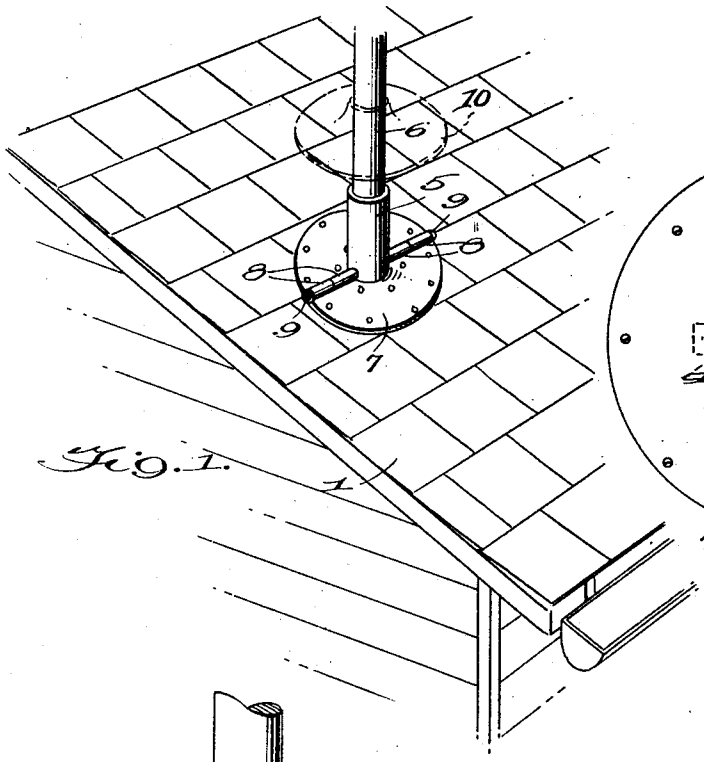


Fig. 2.

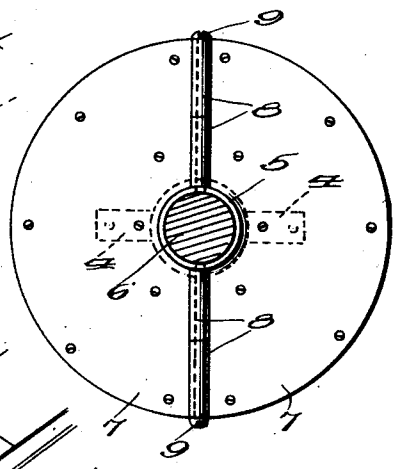


Fig. 3.

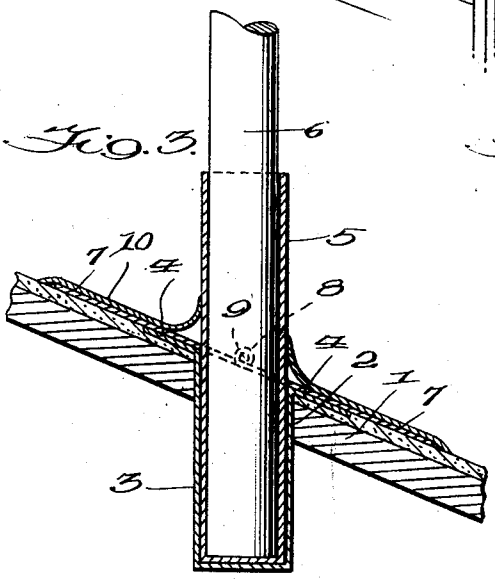
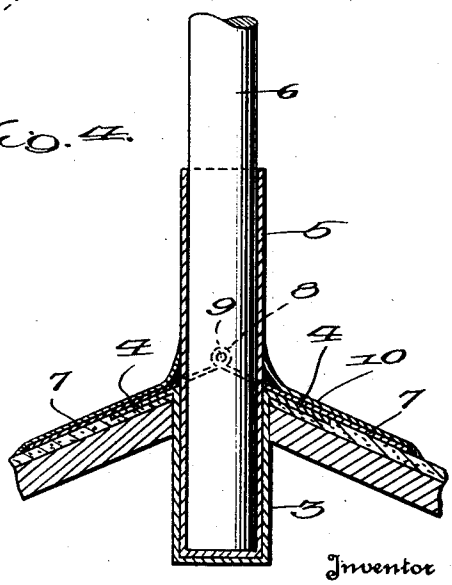


Fig. 4.



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UNITED STATES PATENT OFFICE

FREDERICK W. BONDAY, OF BALTIMORE, MARYLAND

AERIAL SUPPORT

Application filed February 6, 1930. Serial No. 426,362.

This invention relates to an improvement in aerial supports or the like, and is adapted to be used either to support a radio aerial, flag-pole, or wherever it may be found suitable.

The object of the invention is to simplify the construction of supports of this character, to adapt them for mounting upon any type of roof, or any portion of the roof, and at various angles, and also to eliminate the use of guy-wires which have heretofore been required by reason of the unstableness of the support or the like.

In the accompanying drawing:

Fig. 1 is a perspective view showing the support applied to one portion of a gable-roof;

Fig. 2 is a top plan view thereof;

Fig. 3 is a vertical section through the support; and

Fig. 4 is a similar view showing the support applied to the peak of the roof.

The roof is designated generally by the numeral 1, and may be of any type, the support being mounted either on the side or at the peak of the roof as may be found desirable. An opening 2 is formed through the roof in which is secured a bracket or holder 3, the upper arms 4 of which are bent laterally in opposite directions and secured to the roof. This holder is intended to support the lower end of a socket 5 which is inserted through the opening 2, and rests at its lower end in the holder 3. The socket 5 receives the lower end of the aerial-support or flag-pole 6, or the like.

Fitted over the flanges 4 of the support 3 and about the socket 5 are plates 7 formed with interfitting eyes 8 through which bolts 9 extend, the inner ends of these bolts being screwed into threaded openings in opposite sides of the socket 5, as shown in Fig. 2. This forms a hinged joint between the two plates 7 that enables them to be adjusted to various positions relative to each other to fit different shaped roofs. It will be noted that this hinged joint is disposed approximately at right-angles to the flanges 4 of the support 3 which serves to brace the support for different directions. The plates 7 are secured to the surface of the roof as by countersunk nails or screws or the like.

A cover 10 should be fitted over the support about the socket 5, as shown in Fig. 4, and is of sufficient size to extend over the entire outer surface of the plates 7 with its inner edge soldered or otherwise secured to the socket 5 and roof or plates in order to seal the space therearound, and to prevent a leaking of water through the support at this point, and it also protects the parts of the support from injury by corrosion, rusting or otherwise.

In this way, a secure and rigid support is provided for aerial poles, flag-poles, or the like, securely fastening them in a position in a roof, making it unnecessary to use guy-wires or other means of lateral bracing, since the support is sufficiently strong and the parts are so disposed as to brace the pole effectively.

By reason of the plates 7 being hinged together, they may be used on different portions of a roof, as for instance on the sloping side, the peek, or other points where they serve to fasten the support securely in place.

The simplicity of the construction enables the parts to be taken apart or initially packed in a small carrier for shipment or otherwise.

I claim:

1. A mast-holder comprising a socket which is adapted to extend a suitable distance below and above its support and plates hinged together and embracing said socket on different sides and above the support for holding the same securely in position on the support.

2. A mast-support comprising a socket for receiving a mast or the like said socket being adapted to extend a suitable distance below and above its support and hinged plates disposed on opposite sides of said socket and embracing the same, said plates being disposed parallel to the surface of the support for holding the socket in place.

3. A mast-support comprising a socket adapted to be disposed in a hole formed in a roof, plates hinged together and embracing the socket for holding the same in place, said plates being secured to the surface of the

roof and arranged approximately parallel therewith for holding the socket in place.

4. A mast-support comprising a socket adapted to be disposed in a hole formed in a roof, plates hinged together and embracing the socket for holding the same in place, said plates being secured to the surface of the roof and arranged approximately parallel therewith for holding the socket in place, eyes formed between the plates, and bolts extending through the eyes and into the socket forming the hinged joint for the plates.

5. A mast support comprising a socket for receiving a mast or the like, and adapted to be disposed in a hole formed in a roof, a supporting bracket disposed beneath and embracing the lower end of the socket and having outturned arms secured to the roof, plates extending on opposite sides of the socket, and embracing the same, said plates having hinged joints therebetween arranged approximately at right angles to the flanges of the supporting brace.

6. A mast support comprising a socket for receiving a mast of the like, and adapted to be disposed in a hole formed in a roof, a supporting bracket disposed beneath and embracing the lower end of the socket and having outturned arms secured to the roof, plates extending on opposite sides of the socket, and embracing the same, said plates having hinged joints therebetween arranged approximately at right-angles to the flanges of the supporting brace, and a cover fitted over the plates and about the socket secured thereto to protect the parts of the mast-support.

7. A mast support of the character described comprising a socket inserted in a hole in a support and extending above and below the support, and plates hinged to the sides of said socket and movable in planes extending laterally therefrom to fasten the socket to supporting surfaces at different angles thereto.

8. The combination of a suitable support having a vertically disposed hole therein, a holder extending through the hole in the support and having means thereon by which it is secured to the support, a socket fitted to the holder to receive a mast, plates hinged to the socket and adapted for adjustment to the support and to be secured thereto.

9. The combination of a suitable support having a vertically disposed hole therein, a holder extending through the hole in the support and having means thereon by which it is secured to the support, a socket fitted to the holder to receive a mast, plates hinged to the socket and adapted for adjustment to the support and to be secured thereto, and a cover fitted around the socket above the support and covering the entire surface of the plates and adapted to be soldered or otherwise secured to the socket and support or plates in order to seal the space therearound and prevent leakage through the hole.

10. A mast support comprising a socket for receiving a mast or the like and adapted to be secured to a support, a supporting bracket disposed beneath and embracing the lower end of the socket and having outturned arms secured to the support, plates extending on opposite sides of the socket, said plates having hinged joints therebetween arranged approximately at right angles to the flanges of the supporting brace.

11. A mast support comprising a socket for receiving a mast or the like, plates extending on opposite sides of the socket and embracing the same, and means connected with the plates providing hinged joints therebetween.

12. A mast support comprising a socket for receiving a mast or the like, plates extending on opposite sides of the socket and embracing the same, and means connected with the plates providing hinged joints therebetween, the axis of said hinged joints being approximately in a plane passing vertically through the center of the socket.

In testimony whereof I affix my signature.

FREDERICK W. BONDAY.