Jan. 17, 1956 J. N. CAYO 2,731,225

ANTENNA MOUNTING

Filed March 7, 1952

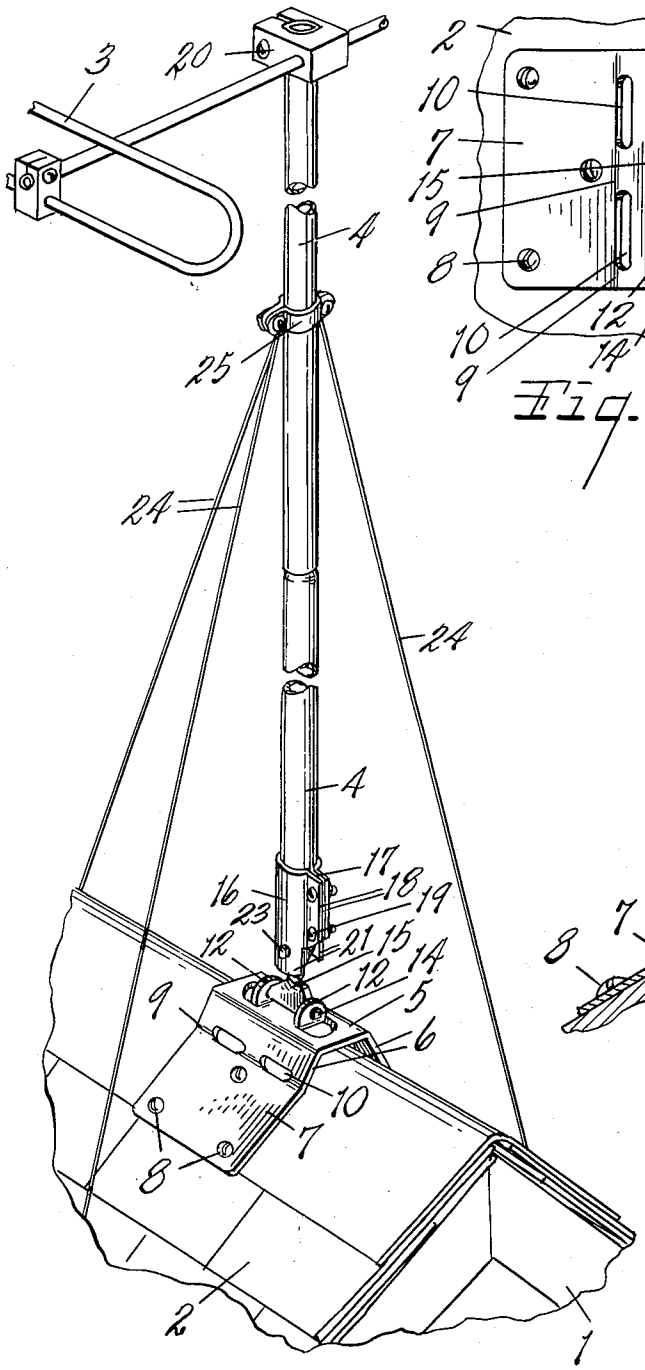


Fig. 1.

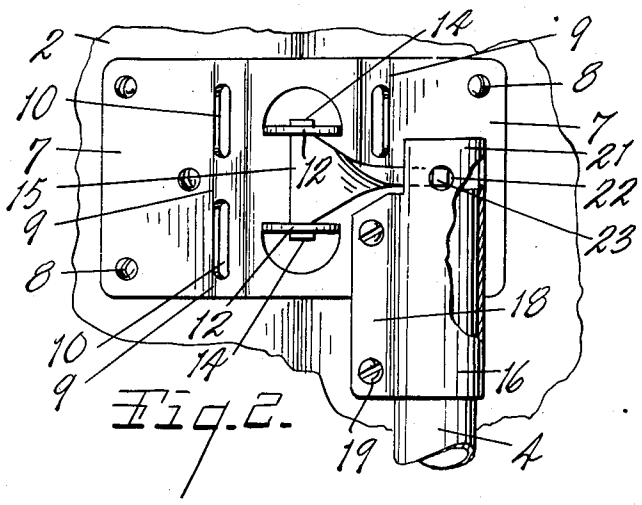


Fig. 2.

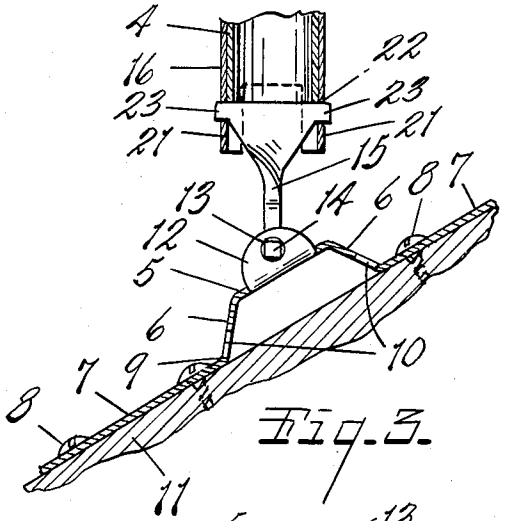


Fig. 3.

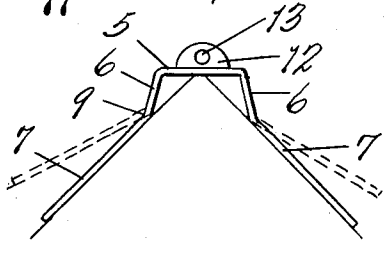


Fig. 4.

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ANTENNA MOUNTING

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1 Claim. (Cl. 248—44)

This invention relates to improvement in antenna mounting.

The main objects of this invention are:

First, to provide an antenna mounting of relatively few parts which is capable of a wide range of adjustment or adaptation to the roof or support to which it is applied and which facilitates the erection and adjustment of the antenna.

Second, to provide an antenna mounting which permits mounting and adjustment of the antenna upon the mast in a convenient position for the workmen and the erection of the mast with the antenna thereon.

Third, to provide a structure having these advantages which is very simple and economical in its parts and installation thereof.

Objects relating to details and economies of the invention will appear from the description to follow. The invention is defined and pointed out in the claim.

A preferred embodiment of the invention is illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary perspective view of an antenna mounting embodying my invention installed upon a roof.

Fig. 2 is a fragmentary plan view illustrating certain of the possible manipulations of the mast in installation of the antenna.

Fig. 3 is a fragmentary view partially in vertical section illustrating another manner of installing the antenna mounting of my invention.

Fig. 4 is a fragmentary sectional view of the base illustrating the adjustability of the attaching leaves or plates thereof.

In the accompanying drawing **1** represents a building and **2** the roof thereof; **3** represents an antenna and **4** the antenna supporting mast. The mast **4** is preferably formed of pipe or tubing as is illustrated.

The base member **5** of my antenna mount is formed as a stamping and is of downwardly facing channel section, the arms **6** preferably diverging downwardly. The arms **6** terminate in integral attaching leaves or plates **7** adapted to receive the attaching screws **8**. The attaching leaves or plates **7** are bendably connected at **9** to the lower edges of the arms **6**. Slots **10** are preferably provided to facilitate bending at the juncture of the attaching leaves with the arms. This adjustment is indicated in Fig. 4 and another position of adjustment is also shown in Fig. 3 where the leaves **7** are adjusted to the same plane to permit mounting on an inclined support or roof **11**.

The top of the base has pivot ears **12** struck up therefrom in longitudinally spaced relation and perforated at **13** to receive the pivots or pintles **14** of the support member **15**. The mast socket **16** is longitudinally split at **17** and is provided with outwardly projecting flanges **18** at the edges of the split to receive the clamping bolts **19**.

This permits the mast being rotatably adjusted to the desired position for positioning the antenna which has been secured to the upper end of the mast as by the clamp **20**. This adjustment can be affected after the mast is erected and the clamp **20** is not readily accessible.

The socket member **16** is provided with opposed depending ears **21** having pivot or pintle openings **22** therein for the pivots or pintles **23** on the swinging end of the support member **15**. The pairs of pivots **14** and **23** are disposed in 90° angular relation to each other. This permits the tilting of the support member relative to the supporting base and it permits the tilting and swinging of the mast mounted in the mast socket to various positions relative to the base after the base has been mounted on the roof or other support. One position being shown in Fig. 2. However the mast may be swung to various other collapsed positions to permit the most convenient manipulation of the antenna.

After the antenna has been mounted on the mast the mast is swung to erected position as shown in Fig. 1 and secured in erected position by the guy wires **24** which are connected at their upper ends to a clamp **25** on the mast.

The antenna mounting of my invention is capable of a very wide range of adaptation and manipulation in installing as may best be suited for the particular installing conditions. The base member and the support may be economically formed of stampings, the support being died out in the flat and then given a quarter twist between the pivots to present pairs of pivots in 90° relation. The socket is also formed of sheet stock and may be formed of a suitable gauge of sheet metal.

I have not attempted to illustrate various other adaptations of my invention as it is believed that this disclosure will enable those skilled in the art to adapt the same and manipulate as may be desirable in the use thereof.

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

An antenna mounting comprising a base member of downwardly facing channel section, the arms of which terminate in integral flat attaching leaves bendably connected to their lower edges, the web of the base member having longitudinally spaced outwardly projecting perforated pivot ears integral therewith, a longitudinally split mast socket having opposed outwardly projecting flanges at the split thereof, said socket having opposed depending perforated pivot ears, an upright support member having a pair of integral aligned pivots coacting with the pivot ears of said base member and a pair of integral aligned pivots coacting with the pivot ears of said socket member, said support member being formed of flat stock and having a quarter twist between its pairs of pivots to present the pairs of pivots in 90° angular relation to each other, and clamping bolts disposed through said flanges of said socket member for clamping the socket upon a mast adjustably positioned therein.

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