April 22, 1958 D. E. JONES 2,831,339

DEVICE FOR MOUNTING ANTENNA MAST OR THE LIKE

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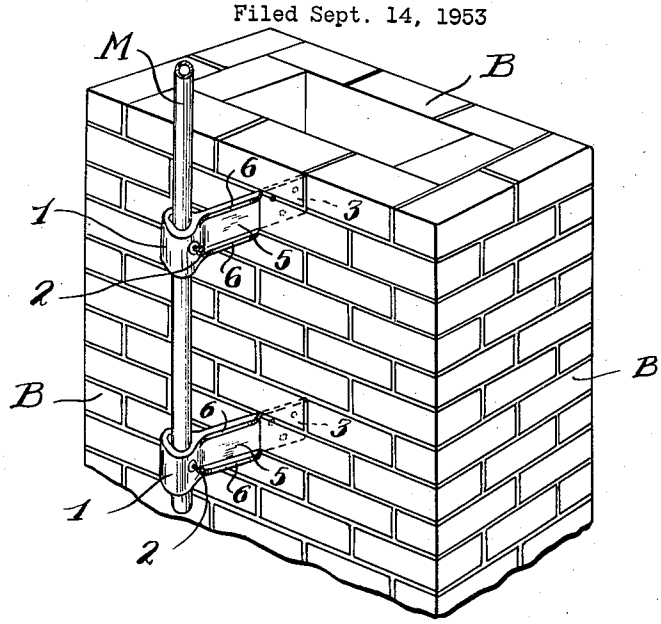


FIG. 1

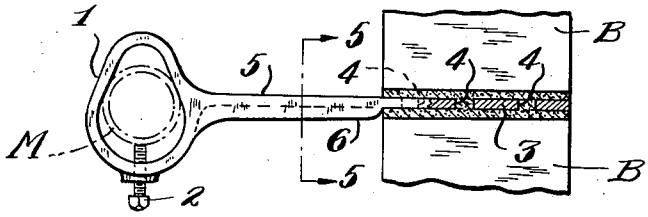


FIG. 3

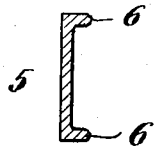


FIG. 5

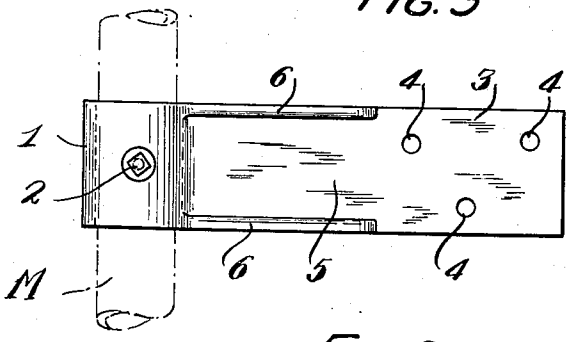


FIG. 2

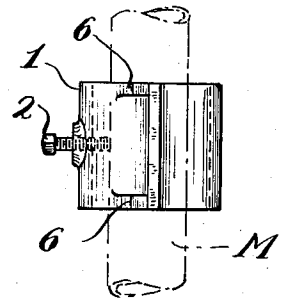


FIG. 4

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DEVICE FOR MOUNTING ANTENNA MAST OR THE LIKE

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1 Claim. (Cl. 72—101)

This invention relates to an improved device for mounting a mast, as for instance the mast of a radio or television antenna.

There have been devised various means for mounting an antenna mast upon a chimney but, so far as I am aware, all such prior devices have been applied to the chimney after erection of the same and hence when the mortar between the bricks has hardened, as disclosed for instance in the patents to Wicke, No. 1,691,864, November 13, 1928, Sadler, No. 1,745,814, February 4, 1930, and Cohn, No. 2,482,575, September 20, 1949.

Accordingly, the object of my present invention is to provide an improved device for mounting a mast, which may be set in the wet mortar between the bricks of a chimney while it is being constructed so that my mounting device becomes an original and permanent part of the chimney, and which may be of a comparatively simple and inexpensive structure.

More specifically, the object of my present invention is to provide such a device which comprises a pair of duplicate members each of which is of one-piece or integral form and is of suitable dimensions for placing between the ends of the bricks and is provided with means whereby the wet mortar and the member may become set and bonded together as a unitary combination at the time of erecting the chimney.

Other objects will appear from the following description and claim when considered together with the accompanying drawing.

Fig. 1 is a perspective view illustrating my present invention installed in a brick chimney;

Fig. 2 shows in elevation one of the members of my present improvement;

Fig. 3 is a plan view of the same;

Fig. 4 is an end view thereof; and

Fig. 5 is a detail view taken on line 5—5 of Fig. 3.

It is to be understood that the present form of disclosure is merely for the purpose of illustration and that there might be devised various modifications thereof without departing from the spirit of my invention as herein set forth and claimed.

Referring now to the accompanying drawing in detail, there is illustrated a conventional form and construction of brick chimney in which the bricks B are of usual dimensions. Since my present mast-supporting device itself consists of duplicate members, a detailed description of one of these members will no doubt suffice with the explanation that these two members are arranged in vertical alignment, as indicated in Fig. 1 of the present drawing.

Each of these two members has its integral outer end portion 1 formed with a vertically disposed opening of oval form to receive the mast M which is secured therein by means of the set screw 2. By virtue of the oval-shaped opening, there may be obtained a three-point engagement of the mast M within the opening, as illustrated in Fig. 3 of the present drawing. The inner end portion 3 of each of these duplicate members is of flat form extending in a vertical plane and may be of substantially the same dimensions as the end of the conventional brick B. The flat portion 3 may be of substantially uniform thickness throughout and is of less thickness than that of the mortar between the bricks B of the chimney so as to permit the same to be placed between the bricks while the chimney is being erected and to become bonded together with the mortar as it sets; and, in order to still further promote this bonding engagement, the flat portion 3 is provided with a plurality of triangularly arranged apertures 4 to receive the mortar therein and therethrough.

As indicated above, each of these two duplicate members will be set in position between the ends of adjacent bricks B as the chimney is being erected and they will be placed in vertical alignment and at proper distance apart so as to receive and hold the mast M in vertical position in the apertures of the portions 1. Also, these two duplicate members will be of suitable length to permit the mast M to clear any coping that may be provided upon the top edge of the chimney; in any event, there may be allowed suitable spacing of the mast M from the chimney and these members may be given a length accordingly.

The intermediate portion 5 of each of these two duplicate members is of flat form extending in the same vertical plane as the inner portion 3; and the intermediate portion 5 may be provided with the reinforcing ribs 6 along the upper and lower edges thereof.

Thus each one of these duplicate members is made of one piece, with the portions 3 and 5 extending in the same vertical plane and with the apertured or hollow portion 1 also extending vertically. That is to say, the hollow outer end portion 1 may be recognized as a continuation of the vertically disposed portions 3 and 5, thereby simplifying the construction of these members and also contributing to their supporting strength in a most effective manner since they are disposed upon edge and thus there is no danger of their failure in supporting the load of the antenna mast. The ribs 6 ensure against any danger of yielding of these members in a lateral direction.

By making the flat portion 3 of suitable thickness, having in mind the conventional space between two bricks in a chimney, there may be an effective film of mortar between each face of the portion 3 and the adjacent brick and these two opposite films of mortar will be joined by the intermediate portions of mortar which fill the apertures 4 so as to produce a most effective bond for holding the member securely in place between the bricks.

With my present form of mast-supporting device, it becomes an original part of the chimney construction and thus there may be avoided the difficulty of later providing such a mast-supporting means after the chimney has been erected and the mortar hardened. Therefore my present invention makes it possible to realize a decided saving in trouble and expense and also to enjoy an increased efficiency and dependability. Because of the comparatively low cost of the members included in my present invention, it becomes practically expedient to install them as an original part of the chimney so as to have them ready for use at once whenever desired.

What I claim is:

In combination, a wall of bricks with staggered joints and with mortar in the joints, and a mounting device for a mast comprising a plurality of duplicate members in vertical alignment, each of said members having its outer end formed with a vertically disposed opening to receive the mast and provided with means for securing the same therewithin, each of said members having its inner end portion formed as a flat web of the same height as that of a brick and extending in a vertical plane, said web being of less thickness than that of the mortar between the bricks and being set between the ends of adjacent

bricks and within the mortar when wet so as to form a bond therewith for anchoring the member in position, said web being of the same shape and dimensions throughout its entire extent.

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