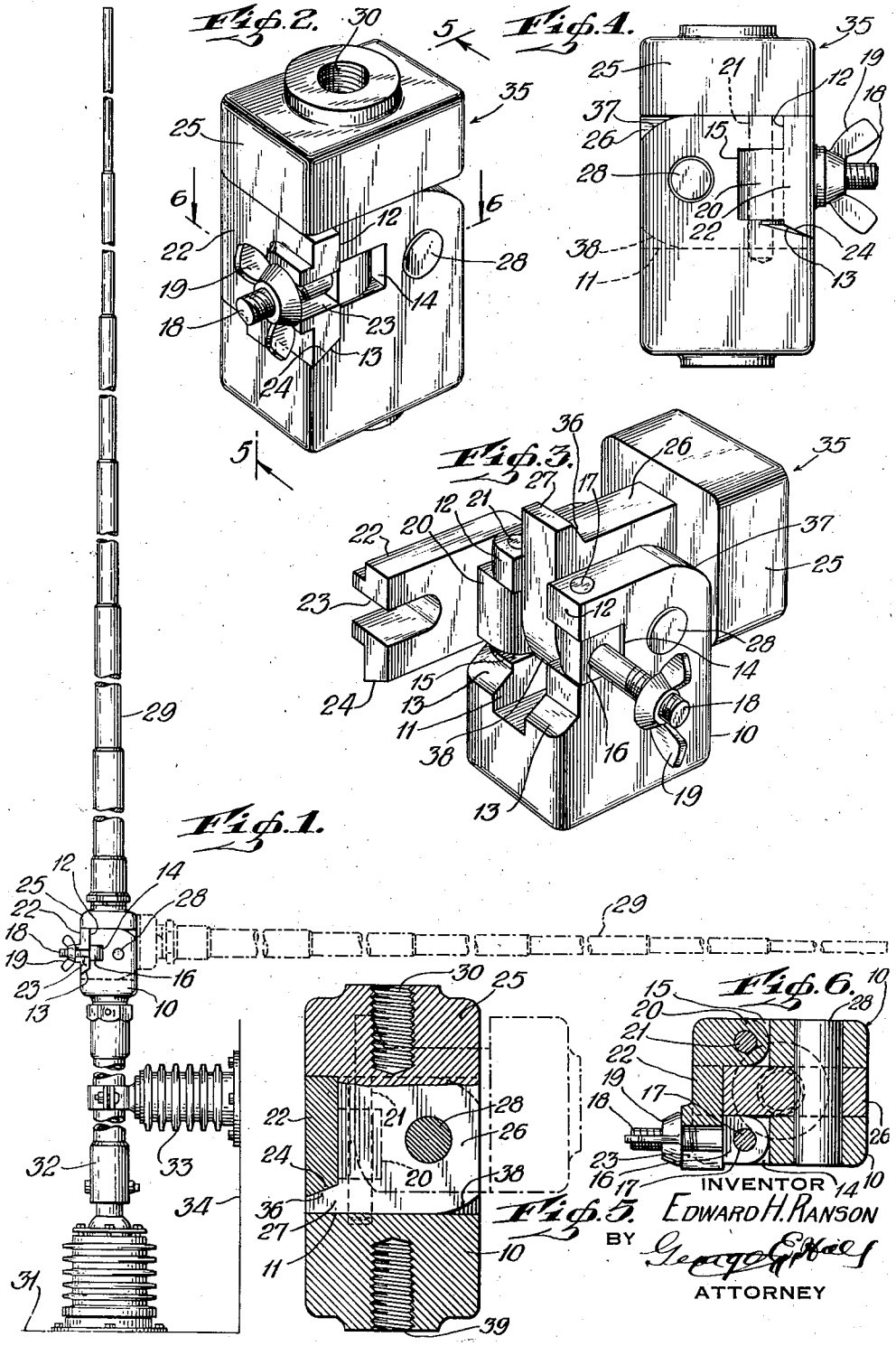
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MOVABLE MAST SUPPORT

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## MOVABLE MAST SUPPORT

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8 Claims. (Cl. 287—99)

This invention relates to a movable mast support. The mast contemplated is an antenna mast, flag mast or the like.

An object of the invention is to provide a device that will support a mast in plural positions and hold it rigidly in some of such positions.

Another object is to provide such a device that will be simple in its construction, readily assembled and installed, and if used with an antenna mast may be insulated from its mounting.

With these ends in view, this invention consists in the movable mast support, having certain details of construction and combinations of parts, as will be hereinafter described and from which other objects of the invention will become apparent.

Referring to the drawing, in which like numerals of reference indicate like parts in the several figures:

Figure 1 is a view of this improved device with an antenna mast associated therewith and mounted so as to be insulated from its support:

Figure 2 is a perspective view of the device:

Figure 3 is a similar view with the several parts of the device occupying different relative positions:

Figure 4 is an elevation of the device:

Figure 5 is a sectional view taken on line 5—5 of Figure 2: and

Figure 6 is a sectional view taken generally upon line 6—6 of Figure 2.

The invention is illustrated as being associated with an antenna mast and mechanism whereby the entire device is supported on a suitable base and insulated therefrom.

The numeral 10 indicates the body of the device which is formed with a slot 11, that extends through the top, front and back thereof, thereby to form a pair of spaced opposed walls or cheeks 12. The lower ends of the walls are beveled at 13, and terminate above the bottom of the body 10.

In the cheeks of the body, upon the opposite sides of the slot 11, are formed slots 14 and 15 which open through the cheeks or walls 12. In the slot 14 is a locking screw pivotally mounted upon a pin 17 that passes through the head 16 thereof. On the shank 18 of this screw is a wing nut 19.

The latch member 22 having a slot 23 at one end is pivotally conected with the body 10 by the pin 21 that passes through the integral lug 20 within the slot 15. The under face 24 of this latch is flaring, preferably with a slightly less angle to the vertical than the lower end of the cheeks.

The mast member 35 has a head portion 25 that in cross section, as shown, is substantially the same shape and size as the body 10, with a depending tongue 26 thereon of substantially the same width as the slot 11. A lip 27 is at the lower end of this tongue, and with the latter is received in slot 11 and is engaged by the beveled face 24 of the latch. This mast member is pivotally connected with the body 10 by a pin 28. The width and thickness of the tongue 26 (engaging against the inner walls of the cheeks upon opposite side of the slot 11) of the body member is such as to provide a rigid structure that will resist any tendency to torque.

The antenna mast 29 is screwed into the threaded hole 30 in the head portion 25 of the mast member 35, and is thus rigidly connected therewith. As so mounted the mast member may be moved upon the pin 28 to any position within the limits of an arc of 90°. One extreme position is shown by full lines and the other by broken lines in Figure 1. When in the full line position the inner face of the latch 22 contacts the walls 12, and the under face 24 engages the flaring face 36 on the locking lip 27, which projects outwardly under the latch. Pressure by the latch being held in such position by the locking screw, the shank of which projects through the slot 23, upon the lip draws the underside of the tongue 26 against the body 10, and secures the parts rigidly together. The body 10 at 37 and the tongue 25 at 38 are rounded to permit relative movement.

Other means for securing the parts together may be used in this invention equally as well as the mechanism herein shown. By swinging the latch 22 to its open position the mast member 35 may be moved upon the pin 28 to a different position relative to the body member 10. In one such position the mast 29, illustrated by broken lines, is substantially 90° from the full line position illustrated in Figure 1. Thus the movable mast may be shifted from one position to another with the minimum of inconvenience, and in both positions securely locked against inadverent or accidental movement by manually operated means that do not require the assistance of a tool or tools.

As illustrated in Figure 1, the device is secured to a base 31 by an insulated standard 32 and held against lateral movement by a similar insulated standard 33 fixed to a wall 34 at an angle to the base 31. A portion of the standard

32 is threaded into the hole 39 in the body 10. Other means for securing the body means may be used equally as well as the means herein shown.

This device is, among other uses, adapted for an antenna mast of seacraft and particularly when the latter may pass under a low structure, such as a bridge, mooring shed or the like, and the antenna projects so far above the deck of the seacraft as to form an obstruction to its free passage. Under such circumstances the position of the antenna mast may be shifted so that it is in a substantially horizontal or other plane and below the overhead structure, thus permitting the seacraft to pass freely thereunder. The antenna mast is then returned to its former substantially vertical position and locked in such position. Within the scope of the claims minor changes and alterations may be made in the details of the device as herein shown and described.

What I claim is:

1. A mast supporting device composed of a body formed with a pair of spaced cheeks having a beveled face adjacent to their lower ends, a mast head pivoted to the body and formed to support a mast and having a tongue formed to be received in the space between the cheeks and a lip adjacent to its lower end formed with a beveled face substantially corresponding to the said beveled faces on the cheeks, a latch movably mounted on the body and having a beveled face to engage the beveled face of the said lip and the beveled faces of the cheeks, and means to releasably hold the latch against movement.

2. A mast supporting device in accordance with claim 1, wherein the latch has a slot and wherein the latch holding means includes a pin receivable in the said slot and having a head disposed in an opening provided therefor in one of the cheeks, means to mount the pin head for pivotal movement, and an adjustable member on the pin engageable with the latch to hold the latter in position.

3. A mast supporting device composed of a body formed with a pair of spaced cheeks, a mast head pivoted to the body and formed to support a mast and having a tongue receivable in the space between the cheeks, a lip carried by the tongue, a latch movably connected to the body and engageable in one position of the mast supporting head with the lip to hold the mast in one of its positions, and means to releasably hold the latch against movement and thereby the mast supporting head.

4. A mast supporting device composed of a body formed with a pair of spaced cheeks, a mast head pivoted to the body and formed to support a mast and having a tongue receivable in the space between the cheeks, a lip carried by the tongue, a latch movably connected to the body and in one position of the mast supporting head is adjacent to the bottom of the tongue and thus permit a limited movement of the mast from one of its extreme positions and engageable with the lip of the tongue in a second position of the mast supporting head to hold the mast in another of its positions, and means to releasably hold the latch against movement and thereby the mast supporting head.

5. A mast supporting device composed of a body, a mast supporting member pivoted to the body so as to occupy different positions and having a tongue, a latch movably connected to the body and extending across the tongue in all positions of the latter and adjacent to the bottom of said member to hold the mast against movement in one direction when the mast is in a substantially horizontal position, and means on the tongue engageable with the latch to hold the mast in a substantially vertical position.

6. A mast supporting device in accordance with claim 5 wherein the body has a pair of cheeks between which the tongue is movable and wherein the latch engages portions of the sides of the cheeks when the latch is in latched position.

7. A mast supporting device composed of a body, a mast supporting member, a latch, means to pivotally connect the mast supporting member to the body including a tongue having a projection adjacent one end thereof, said latch engaging the projection to hold the mast supporting member thereby to hold the mast in its substantially vertical position, and is adjacent to the bottom of the tongue and thus limits the movement of the mast in one direction when the mast is in its substantially horizontal position.

8. A mast supporting device, composed of a body having cheeks with bevelled portions adjacent their lower ends, a mast supporting member in part between said cheeks, means to pivotally connect the supporting member to the body so as to dispose the mast in one position substantially vertically and in a second position substantially horizontally, and means, consisting in part of a latch, having a bevelled portion which also engages the bevelled portion of the cheeks to releasably hold the mast member with the mast in one of said two positions and limiting its movement in one direction when in the other of said positions.

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