Dec. 17, 1940. F. EINERMANN 2,225,103

FLAG HOLDER

Filed June 25, 1940 2 Sheets-Sheet 1

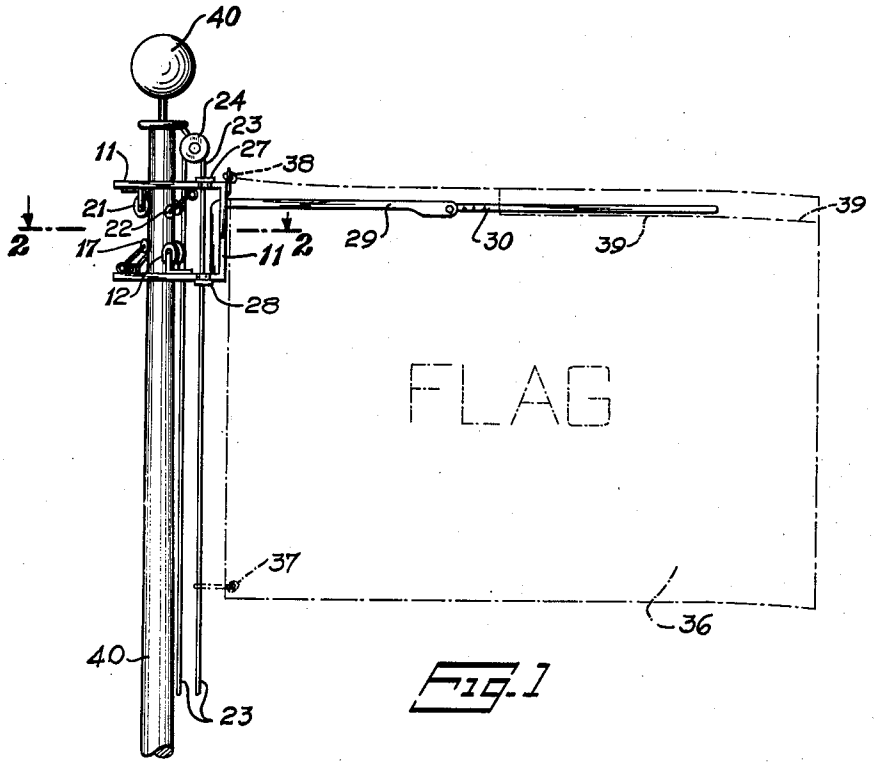


Fig. 1

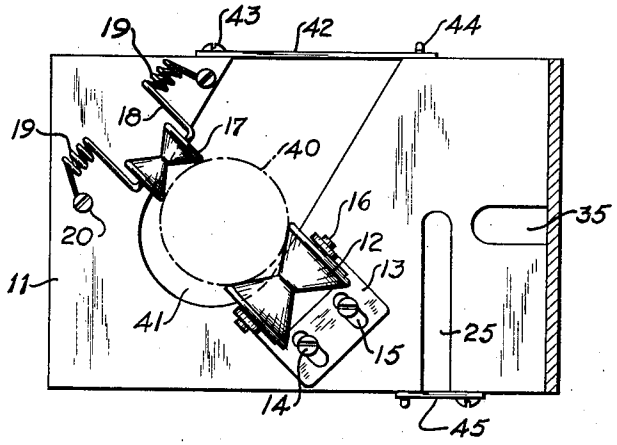


Fig. 2

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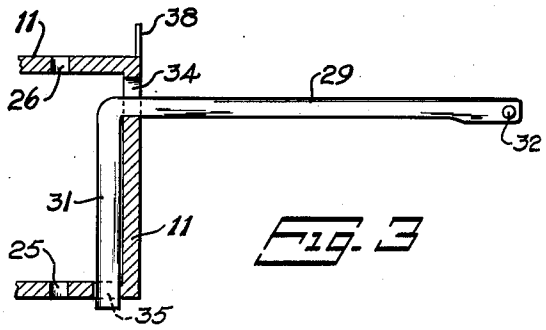


Fig. 3

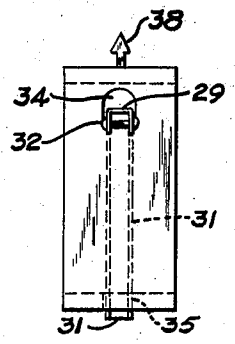


Fig. 4

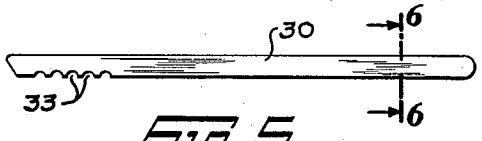


Fig. 5

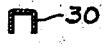


Fig. 6

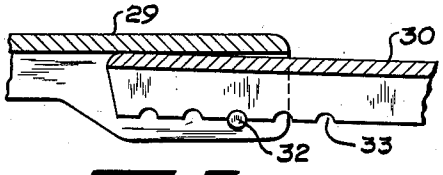


Fig. 7

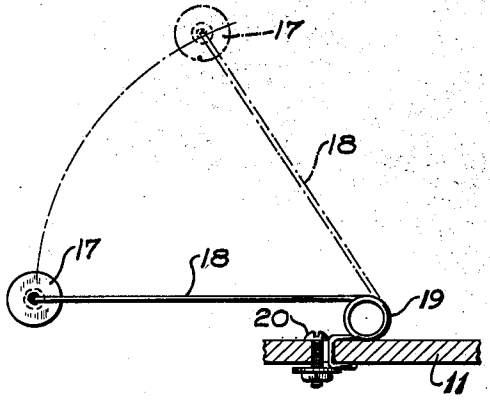


Fig. 9

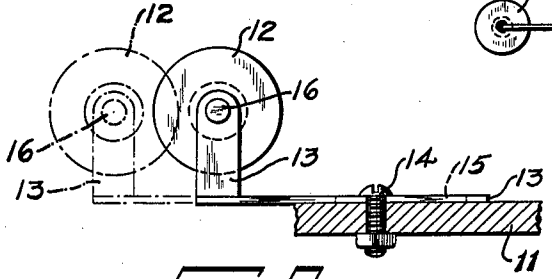


Fig. 8

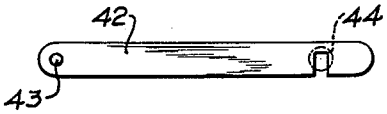


Fig. 10

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UNITED STATES PATENT OFFICE

2,225,103

FLAG HOLDER

Frederick Einermann, Ramsey, N. J.

Application June 25, 1940, Serial No. 342,329

3 Claims. (Cl. 116—173)

This invention relates to flag holders and has for its object the providing of means for retaining the flag in an extended position. By keeping the flag in an extended position regardless of whether a breeze is blowing or not, the insignia can always be observed.

A further object of this invention is to provide a flag holder which will allow the flag to be raised on a flag staff without the flag touching the staff. Another object of the device is to prevent a flag from wrapping around the staff as usually occurs when a change in direction of wind takes place. Still another feature is to provide a device of this character which will hold the flag in an extended horizontal position even though the tension of the halyards slackens. The invention provides adjustable means whereby the device may be adapted, within limitations, for retaining the flag holding arm in a horizontal position, regardless of the size or taper of the staff. Means are also provided for keeping and retaining a tight relationship between the device and the staff for preventing rattling and wear, and yet permit the flag and holder to rotate freely about the staff when the wind changes direction.

Other objects and advantages of my invention will be pointed out in the detailed description below when read in conjunction with the drawings wherein:

Fig. 1 is a front elevational view of a flag suspended from a staff by means of the proposed invention.

Fig. 2 is a sectional view on 2—2, Fig. 1.

Figs. 3 and 4 are front and side elevational views of the angle bracket arm assembled on the body.

Fig. 5 is a front elevation of the extension arm and Fig. 6 is a section on 6—6, Fig. 5.

Fig. 7 is a front elevational view in section of the adjustable coupling between the angle bracket arm and the extension.

Fig. 8 is a front elevational view of the supporting roller assembly showing its adjustable feature.

Fig. 9 is a front elevational view of the tension roller assembly.

Fig. 10 is a side elevational view of the staff locking bar. Figs. 7 to 10 are enlarged views of the elements shown in Fig. 1.

In detail the device comprises a U shaped body 11 provided with angular slots 41 in the top and bottom horizontal arms of said U shaped body 11, through which the staff 40 normally passes. On either side of slots 41 rollers 12 and 17, and 21 and 22 respectively are located. The faces of said rollers are V shaped and disposed at angles of 45 degrees with the axes so that the staff 40 will always have a two point bearing on each roller.

The supporting rollers 12 and 21 are of heavier construction than the tension rollers 17 and 22. This is necessary since the weight of the flag arm and flag is carried by the staff 40 through the supporting rollers (upper left and lower right rollers as illustrated in Fig. 1). In order to maintain the angle bracket arm 29 and the extension 30 horizontal the supporting rollers 12 and 21 must be fixed at the proper position in relation to the staff. However, if the size of the staff is smaller or the taper greater the arm 29 would drop to a slanting position. To overcome this the supporting rollers 12 and 21 have been provided with means for adjusting their position as illustrated in Fig. 8. The roller 12 Fig. 2 (similar in construction to roller 21) is journalled on shaft 16 which in turn is supported by frame 13 fastened to body 11 by means of bolts 14 passing through slots 15 in frame 13. By means of bolts and the slotted connection the supporting rollers 12 and 21 may be adjusted to the correct position, depending upon the diameter of the staff 40, for maintaining the flag holding arm horizontal.

Rollers 17 and 22 are tension rollers and supported on a bracket 18. A part of said bracket is formed into coil springs 19 and beyond the springs the bracket is formed into loops through which bolts 20 may be inserted for fastening the bracket to the body 11. The general purpose of these tension rollers is to hold the supporting rollers 12 and 21 against the staff 40 by means of the tension on springs 19 and yet permit the device to roll freely along the staff or rotate about the staff when a change in wind shifts the direction of the flag. Due to the tension of springs 19 the rollers 17 and 22 are normally held in the lower position shown in Fig. 9 when the device is free from a flag staff. When the device is employed on a flag staff the roller is moved as indicated in Fig. 9 by the broken lines.

The supporting arm for the flag consists of two parts, the angle bracket arm 29, and its extension 30. The body 11 is provided with a slot 34 in the vertical base of the U shaped body 11 (Figs. 3 and 4) through which the one leg 31 of the angle bracket arm 29 may pass when the device is being assembled. The lower end or tip of the leg 31 is held in slot 35 located in the bottom horizontal arm of the U shaped body 11. The arm 29 has a channel cross section and at its outer end is provided with a coupling pin 32 extending across the channel. The extension arm 30 also has a

channel section (Fig. 6). A plurality of coupling notches **33** are provided and adapted to mesh with and be held by coupling pin **32** when the extension **30** is telescoped into arm **29** as illustrated in Fig. 7. The purpose of this coupling is to provide means for adjusting the length of the flag supporting arm so as to adapt it for use with various sizes of flags. Additional extension arms may be employed when provided with similar coupling means (Fig. 7), at each end. The additional extensions would be positioned between the angle arm **29** and extension arm **30** whereby the flag holding arm may be increased to any desired size.

The halyards **23** extend as usual from the ground to the top of the staff where they run over pulley **24**. The slots **25** and **26** in the bottom and top respectively of the body are provided for the halyards. Two clamps **27** and **28** are fastened to the operating halyard. To attach the halyard to the body **11**, the halyard is merely slipped into both slots **25** and **26**, so that the clamp **28** is adjacent the bottom of frame **11** and the clamp **27** adjacent the top. Therefore any pull on the halyard is transmitted through the clamps to the body **11** for raising or lowering the flag. Locking bars **45** (similar to **42** Fig. 10) may be closed across the slots **25** and **26** for preventing the halyards from coming out of their slots.

Across the open end of slots **41** in body **11**, through which the staff passes, a locking bar **42** is provided to prevent the body **11** from being wrenched free of the staff. The bar **42** is pivoted to the body **11** at **43** and engages with pin **44** of the body (Fig. 10). For the same purpose I prefer to cut the slot **41** at an angle as illustrated in Fig. 2. When the wind velocity is high the frictional pull on the flag (to the right in Fig. 2) tends to force the staff **40** deeper into the slot **41** which assist in preventing the body **11** from being separated from the staff **40**.

Flag **36** is provided with a tubular hem **39** along its upper right hand edge (Fig. 1). To fasten the flag **36** to the holder the hem **39** is first pulled over the extension arm **30**. The eyelet in the upper left hand corner of the flag **36** is looped over the arrow shaped peg **38** located on the top of the body **11**. The purpose of the shape of the peg **38** is to provide an enlarged head portion for preventing the flag eyelet from being accidentally detached from the peg. I anticipate making the body **11** of a metal stamping in which case the peg **38** may be formed from the stock pressed out in forming slot **34** which would be cut out on three sides, shaped, and bent upward to the position of peg **38** in Fig. 3. The eyelet in the lower left hand corner of the flag is next fastened to the halyard at **37** (Fig. 1). The final step is to adjust the position of the extension **30** or additional extension arms with reference to angle arm **29** in accordance with the size of the flag employed.

I claim:

1. A device of the type described including a U shaped body member, an angular slot in each arm of said body member, a supporting roller in combination with a tension roller fastened to each arm of said body member on opposite sides of said slot, a flag staff extending through said slots and positioned between the supporting and tension rollers, a flag provided with a tubular hem along its top right hand edge, an angular bracket arm one leg of which is adapted to pass through a slot in the vertical base of said body member and be held at its tip in a slot in the lower horizontal arm of said member body for supporting the other leg of the angle bracket arm in a horizontal position, an adjustable extension arm detachably fastened to said angular bracket arm and adapted to enter the tubular hem in said flag for holding the flag in an extended position, and means for raising and lowering said body member and flag holding arm on said flag staff.

2. A device of the type described including a U shaped body member, an angular slot in each arm of said body member, a supporting roller in combination with a tension roller fastened to each arm of said body member on opposite sides of said slot, a flag staff extending through said slots and positioned between the supporting and tension rollers, a flag holding arm fastened to said body member for supporting a flag in an extended position, and means for raising and lowering said body member and flag holding arm on said flag staff.

3. A device of the type described including a U shaped body member provided with rollers for positioning said body member on a flag staff, a flag provided with a tubular hem along its top right hand edge, an angular bracket arm one leg of which is adapted to pass through a slot in the vertical base of said body member and be held at its tip in a slot in the lower horizontal arm of said body member for supporting the other leg of the angle bracket arm in a horizontal position, an adjustable extension arm detachably fastened to said angular bracket arm and adapted to enter the tubular hem in said flag for holding the flag in an extended position, and means for raising and lowering said body member and flag holding arm on said flag staff.

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