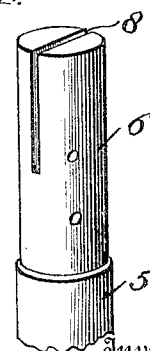
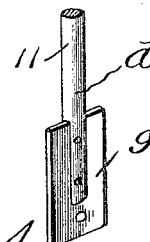
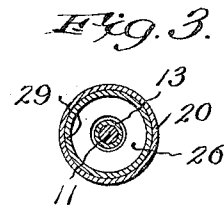
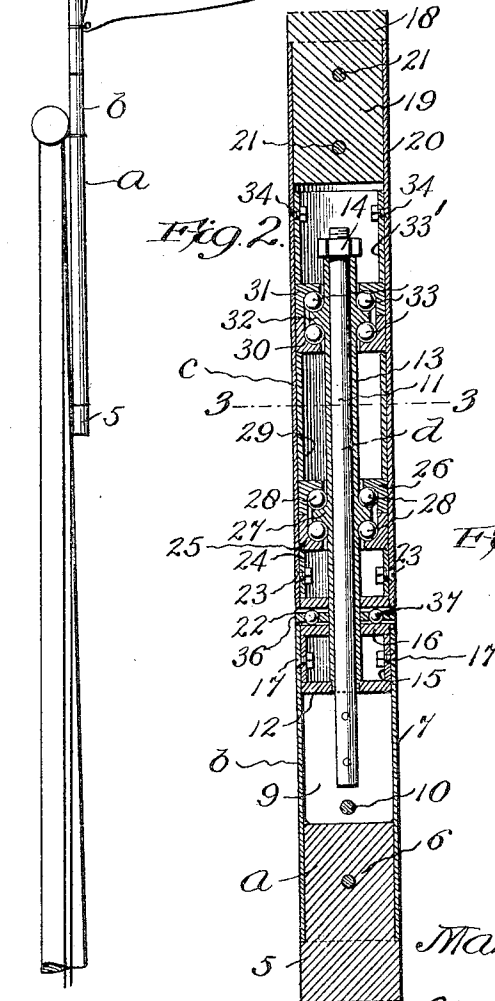
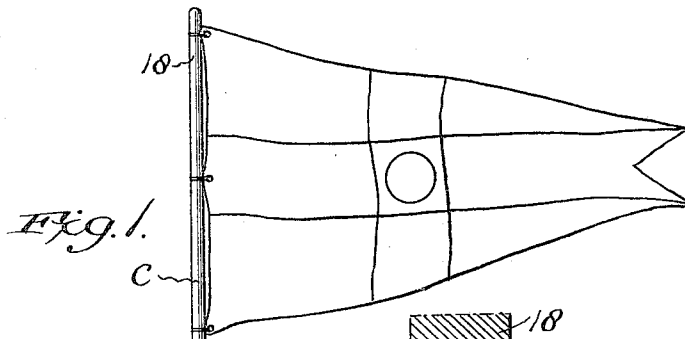


M. T. OLSTAD.  
 FLAGSTAFF.  
 APPLICATION FILED JULY 7, 1914.

1,134,002.

Patented Mar. 30, 1915.



Witnesses

C. James Cronin  
 M. E. Laughlin.

Martin Tolstad

By Victor J. Evans  
 Attorney

# UNITED STATES PATENT OFFICE.

MARTIN T. OLSTAD, OF GREENPORT, NEW YORK.

FLAGSTAFF.

1,134,002.

Specification of Letters Patent.

Patented Mar. 30, 1915.

Application filed July 7, 1914. Serial No. 849,607.

*To all whom it may concern:*

Be it known that I, MARTIN T. OLSTAD, a citizen of the United States, residing at Greenport, in the county of Suffolk and State of New York, have invented new and useful Improvements in Flagstuffs, of which the following is a specification.

The general object of this invention is to invite a flag or pennant carried on a flag-staff and secured to a mast head to fly clear and open from the staff, and also to prevent the possibility of the flag or pennant from wrapping around the staff from such causes as by the wind suddenly changing direction. And to these ends the invention consists of a flagstaff having a butt provided with a rod at one end thereof, and a rotatable and ball bearing flag holding section connected to the rod.

Other objects will appear and be better understood from that embodiment of my invention of which the following is a specification, reference being had to the accompanying drawings, forming part hereof, in which:—

Figure 1 is an elevational view of a portion of a mast showing my improved pole mounted in position thereon. Fig. 2 is an enlarged detail vertical sectional view of a portion of the pole. Fig. 3 is a sectional plan on the line 3—3 in Fig. 2. Fig. 4 is a detail dissected perspective of the co-joining ends of the pole-section.

As shown in the drawings the flagstaff *a* is preferably formed in two sections *b* and *c* which are retained in pivotal relation with each other by the axle member *d*.

The butt portion of the section *b* which is indicated by 5 is preferably formed of wood or the like and is solid in structure. The upper end of the butt is reduced in diameter as shown at 6, whereby to have mounted flush with the periphery of the same the cylinder or tubular casing 7, and by referring to Fig. 4, it will be seen that the upper end 6 of the butt is recessed so as to provide a diametrically arranged slot 8. This slot is preferably of sufficient depth to have fitted therein the blade 9 of the member *d*, which may be secured in place by the bolt 10 or the like; and carried by the blade 9 is a cylindrical rod or upright 11, by means of which the section *c* is secured to the section *b* as will be hereinafter described.

As shown in Fig. 2 the tubular casing 7

extends beyond the upper end of the portion 6, and arranged snugly within the casing so as to rest on the upper end of the portion 6 is a collar or gasket 12, which is centrally bored so as to have fitted therein the slightly reduced end of a tube or sleeve 13; which surrounds the rod 11, and is secured thereon by a nut 14 provided on the upper end of the rod as shown. A suitable spacing sleeve 15 is fitted within the cylinder 7 so as to carry the end piece 16, and for the purpose of retaining the sleeve 15 in place, suitable bolts 17 are employed as shown.

The section *c* includes a portion 18 which is similar in structure to the portion 5 before mentioned, and is provided with a reduced portion 19 over which is mounted the tubular casing 20 which is secured to the portion 18 by such means as the bolts 21. The casing 20 is similar to the casing 7 and extends beyond the end of the portion 21, as shown. Arranged at the end of the casing is a centrally bored end piece 22 which is fitted snugly therewithin, and secured within the casing by the bolts 23 is a spacing sleeve 24 which bears against the end piece 22. This spacing sleeve is provided for the purpose of carrying the cup 25, which is fitted relatively snugly within the casing and is centrally bored so as to permit the projection therethrough of the tube 13 and upright 11; and bearing on the cup 25 is a second cup 26 which is inverted as shown. These cups are arranged so as to be in peripheral spaced relation with an annular shoulder 27 between which and the cups are arranged a plurality of ball bearings 28 which thus admit of the section *c* being rotated on the member *d* carried by the section *b*. Bearing on the inverted or upper cup 26 is a spacing sleeve 29, which is positioned within the cylinder, and which spaces the cups 25 and 26. A second pair of cups 30 and 31 surround a second shoulder 32 carried by the tube 13, and have fitted between them a plurality of balls 33. For the purpose of retaining the upper cup 31 in operative relation with the cup 30, a sleeve 33' is fitted within the cylinder so as to bear against the cup 31, and is secured in place by the bolts 34.

It is quite obvious that the parts are generally assembled within the section *c* before the same are mounted on the top portion 19, and for the purpose of reducing the thrust friction to a minimum when the sections are

rotated, a suitable disk 36 is provided on the tube 13, so as to be located between the adjacent ends of the two sections. This disk is provided within a series of perforations or openings wherein are pocketed suitable ball-bearings 37, which rotate against the top end of the section when the sections are in motion.

It is obvious that those skilled in the art may vary the details of construction and arrangements of parts without departing from the spirit of my invention and therefore I do not wish to be limited to such features except as may be required by the claims.

What I claim as new is:—

1. A flagstaff comprising a butt, a rod rigidly connected at one end to the butt and provided with a plurality of spaced shoulders, a top section, a cylindrical casing connected to the lower end of the top section and fitted over the rod, a plurality of bearing cups arranged in spaced relation on the casing and opposed to the shoulders, balls fitted between the cups and the shoulders, spacing collars fitted within the casing for retaining the cups in relative position to the shoulders and a ball bearing disk arranged

between the adjacent ends of the butt and top sections for the purposes set forth.

2. A flagstaff comprising a butt, having a diametrically arranged slot at the upper end thereof, a rod having a blade adapted to be fitted within the said slot, so as to position the rod on the butt in a non-rotatable manner, said rod provided with a plurality of annular shoulders arranged in spaced relation, a top section, a cylindrical casing connected to the top section so as to surround the rod, a plurality of bearing cups arranged in spaced relation within the casing and opposed to the shoulders, balls fitted within the cups and between the cups and the shoulders, spacing collars arranged within the casing for retaining the cups in relative position to the shoulders and a ball bearing disk arranged between the adjacent ends of the butt and top sections for the purposes set forth.

In testimony whereof I, affix my signature in presence of two witnesses.

MARTIN T. OLSTAD.

Witnesses:

JOHN A. DOWELL, Jr.,  
GEO. A. BYRNE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."