(No Model.)

J. POIRÉ.

FLAG STAFF.

No. 412,117. Patented Oct. 1, 1889.

Fig. 1.

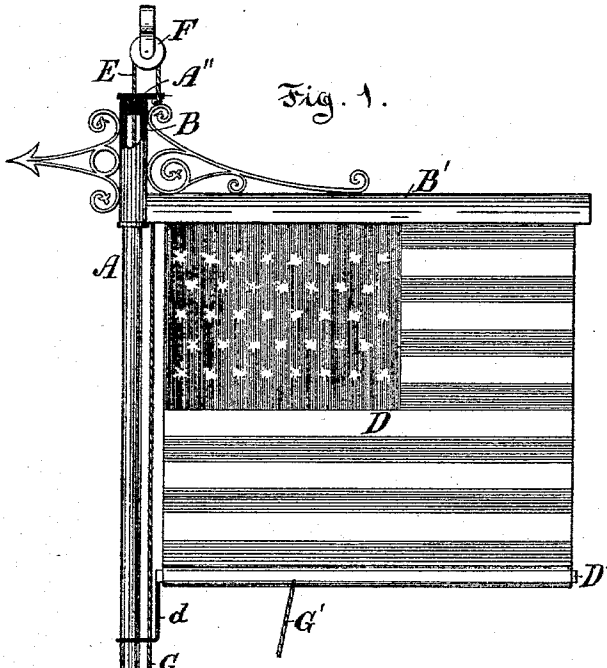


Fig. 2.

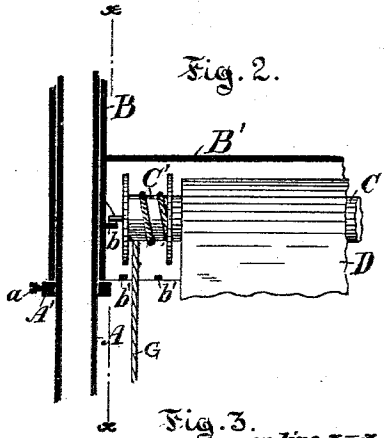


Fig. 3. on line x—x

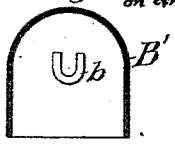


Fig. 4.

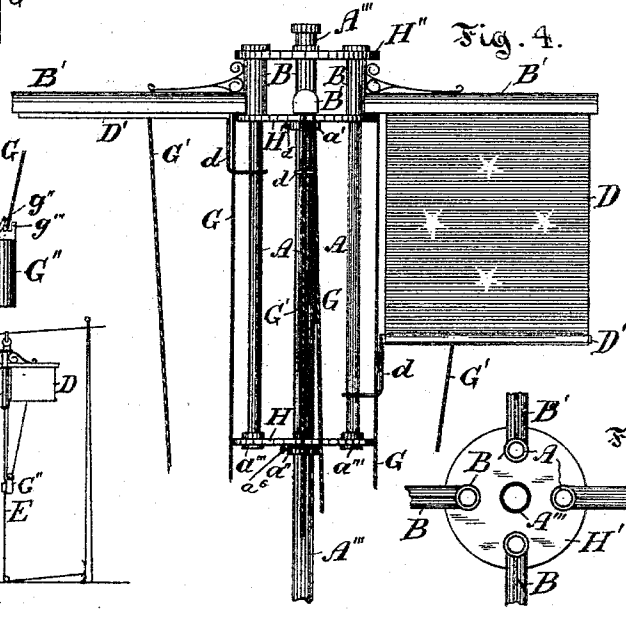
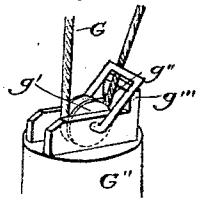


Fig. 7.



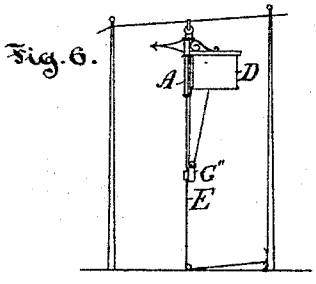


Fig. 5.

Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH POIRÉ, OF ST. JOSEPH DE LEVIS, QUEBEC, CANADA.

FLAG-STAFF.

SPECIFICATION forming part of Letters Patent No. 412,117, dated October 1, 1889.

Application filed October 1, 1888. Serial No. 286,890. (No model.) Patented in Canada August 20, 1888, No. 29,691.

To all whom it may concern:

Be it known that I, JOSEPH POIRÉ, a citizen of Canada, residing at St. Joseph de Levis, in the county of Levis and Province of Quebec, have invented a new and useful Improvement in Flag-Staffs, (for which I have obtained a patent in Canada, No. 29,691, bearing date August 20, 1888,) of which the following is a specification.

The object of my invention is to provide a case or covering in which the flag or banner may be rolled up when not in use without the necessity of hauling it down and taking off the staff or mast, and which will protect it from the weather.

My invention consists, principally, of a hollow staff on which is a tube carrying an arm in which is journaled a roller having a pulley on one end. On this roller the top part of the flag is secured. A weighted rod sliding on the staff keeps it in position. A cord is provided for furling or unfurling the flag, running through a pulley in the counterbalance-weight.

In the drawings, Figure 1 is an elevation of my improved flag-staff, part being shown in section. Fig. 2 is a detail view of part of the staff and arm. Fig. 3 is a cross-section of the arm on line $x\ x$ of Fig. 2. Fig. 4 is an elevation of a mast carrying several flag-staffs. Fig. 5 is a top view of the same. Fig. 6 is a diagram showing how my invention may be used between two masts. Fig. 7 is a perspective view of the counter-balance and the clamp thereon, on an enlarged scale.

A is a hollow metal flag-staff, upon which is centered a tube B, to which is secured an arm B′. This arm is recessed longitudinally on its under side, and is provided at each end with stirrups or bearings b, adapted to support a flag-carrying roller C, which latter is provided with a pulley or drum C′ at the end nearest the staff. Guides b' are provided to keep the cord G from getting off the pulley. In this way it will be seen that when the flag is wound upon the roller within the recess in the arm it is protected from the weather.

A flag or banner D is secured to the roller C. This flag D is held steady by means of a weighted rod D′, which is slidingly connected to the staff A by means of the wire bracket d or in any similar manner. The tube B is held in any desired position on the staff A by means of the collar A′ and set-screw a. A cord G is attached to the pulley C′, and the other end G′ to the weighted rod D′. On this cord is suspended a counterbalance-weight G^2 b^2, the cord G G′ passing through the pulley g'. The cord G G′ may be clamped by means of the clamp g^3 and the projection g^6, the clamp g^2 pressing the cord G against the projection g^3 and the flag held in the required position.

Secured to the side of the weight G^2 is a tube g, in order that the weight may slide on the cord E or any other suitable contrivance to keep it steady. Screwed into the top of staff A is a cap A^2, to one side of which one end of the cord E is attached. The other end of the cord passes over a pulley F and through the cap A^2, which is bored for that purpose, and then through the staff A to the ground or deck, &c., and there secured. The pulley F may be attached to a mast or one of the staffs of a boat or ship.

Any number of these flag-staffs may be placed on one mast, as shown in Figs. 4 and 5. Near the top of the mast A^3 is a circular perforated disk H^2, having perforations for the mast A^3 in the center, and near the circumference for the flag-staffs A another disk H′, with similar perforations a little lower on the mast, and held by the collar a' and set-screw a^5. This disk H′ serves the same purpose as the collar A′ when the staff is used alone—viz., holding the tubes B in position. The lower parts of the staffs A are screwed into sockets a^3, formed in the disk H, which is held on the mast by the collar a^2 and set-screw a^6. In this arrangement it will readily be seen that the cord E may be dispensed with, the weights G sliding on a cord on the mast.

The flags on each of these staffs may be of different designs, and the rapidity with which they may be furled or unfurled will make them of neat use in the signal service.

I claim as my invention—

1. The combination, with the staff, of the laterally-extending vertically-adjustable arm, and the flag-carrying roller journaled in said arm, substantially as specified.

2. The combination, with the vertical staff, of the horizontal arm having the longitudinal recess in its under side, and the roller for re-

ceiving the flag journaled in the recess in the arm, whereby the flag is protected from the weather within the arm when furled.

3. The staff, the horizontal arm thereon, the roller journaled in said arm and having the drum, and the flag on said roller, in combination with the operating-cord having one end connected to the flag and its other end connected to the drum, substantially as described.

4. The staff, the supporting-arm sustained thereby, the roller journaled in said arm and having the winding-drum, the flag attached to said roller, the rod attached to the free end of the flag, and the operating-cord connected, respectively, to the drum and the rod, in combination with the counter-balance suspended loosely from the operating-cord and arranged to permit a relative movement of the cord as the flag is furled and unfurled, substantially as described.

5. The roller, its supporting-arm, the flag on said roller, and its operating-cord, in combination with the counter-balance loosely suspended from said cord and arranged to move thereon, and the clamp on the said counter-balance constructed to engage the cord and hold it in a fixed relation thereto, whereby the flag may be held in varying positions.

6. The staff, the horizontal arm sustained thereby, the roller journaled in said arm and having the drum, the flag carried by said roller, the rod attached to the end of the flag and guided by the staff, and the operating-cord connected, respectively, to the drum and the rod, in combination with the guided counter-balance suspended loosely from the said cord, and the guide on which the counter-balance moves.

7. The combination of the main supporting-staff, the series of supplementary staffs provided with flag-carrying rollers, and the supports for said supplementary staffs connected to the main staff and to the said supplementary staffs, substantially as described.

8. The combination, with the main central staff, of the series of supplementary staffs grouped therearound, the vertically-movable arms provided with the flag-carrying rollers, and the disks H′ and H, adjustable on the main staff and arranged to sustain the arms and supplementary staffs, respectively.

9. A flag-staff A, having a tube B, centered upon it, held in place by a collar *a*, carrying an arm B′, having stirrup-bearing *b*, in which is a roller C, having a pulley C′, and carrying a flag or banner D, held steady by means of a weighted rod D′, connected to the said staff by means of the sliding bracket *d*, and operated by the cord G G′ and weight G^2, substantially as set forth.

10. The combination, with the staff, of the laterally-extending arm, the flag-carrying roller journaled in said arm, and suitable mechanism, substantially as shown, for revolving said roller to furl and unfurl the flag.

Signed at St. Joseph de Levis this 28th day of July, 1888.

JOSEPH POIRÉ.

In presence of—
ALPHONSE ST. PIERRE,
G. S. VIEN.