

W. H. PICKERING.
WEATHER-VANE.

No. 170,766.

Patented Dec. 7, 1875.

Fig. 1.

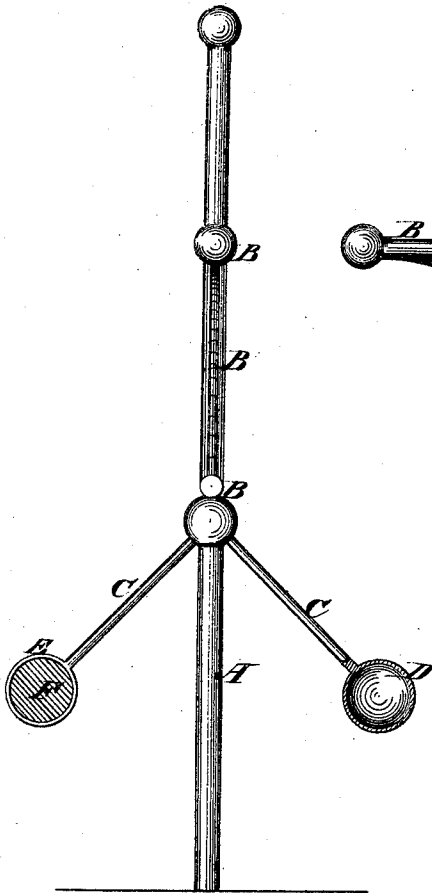
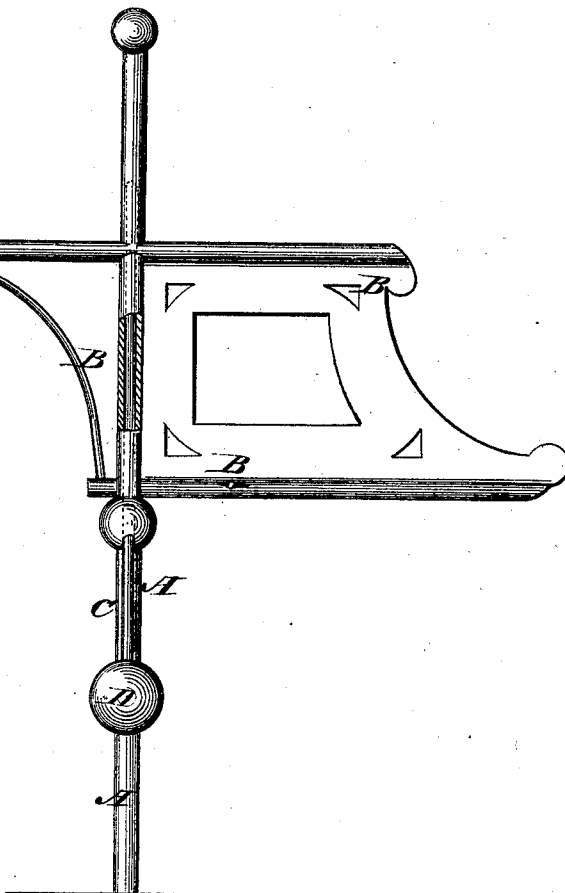


Fig. 2.



WITNESSES:

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WILLIAM H. PICKERING, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN WEATHER-VANES.

Specification forming part of Letters Patent No. **170,766**, dated December 7, 1875; application filed November 13, 1875.

To all whom it may concern:

Be it known that I, WILLIAM H. PICKERING, of Boston, Suffolk county, Massachusetts, have invented a new and useful Improvement in Vanes, of which the following is a specification:

Figure 1 is a front view of my improved vane, and Fig. 2 is a side view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved vane, which will be so constructed as to enable the observer to tell with accuracy in what direction the wind may be blowing.

The invention consists in the combination of the two arms, the metallic ball, and the frame and glass with a vane, substantially as hereinafter fully described.

A represents the staff, to which the vane is pivoted. B is the vane, which may be made of any desired form. To the vane B, at the base of its pivot-socket, are attached two arms, C, which may be horizontal or inclined downward. To the outer end of the left-hand arm C is attached a hollow metallic ball, D, and to the end of the right arm C is attached a thin frame, E, in which is set a plate, F, of glass, which should be ground to prevent it from reflecting the sun's rays. The diameter of the frame E should be equal to or a little less than the diameter of the ball D, so that they may both offer the same resistance to the wind.

The glass and frame F E and the ball D should be of equal weight, so that they may not affect the proper working of the vane. With this construction the ball D will be much the most distinct.

When an observer looks at a vane provided with my improvement, if he sees the ball D upon the right of the vane he knows that the vane is pointing toward him, and the wind is blowing from him toward the vane, and if he sees the ball D upon the left hand of the vane he knows that the vane is pointing from him, and that the wind is blowing from the vane toward him.

The arms C are made of such a length that the distance of the ball D from the pivot of the vane may be the same as that of the forward end of the vane from said pivot, so that the observer, by observing the apparent difference between said distances, can tell exactly in what direction the vane is pointed.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination of the two arms C, the metallic ball D, and the frame and glass E F with a vane, B, substantially as herein shown and described.

WILLIAM HENRY PICKERING.

Witnesses:

EDWARD PICKERING,
CHARLOTTE PICKERING.