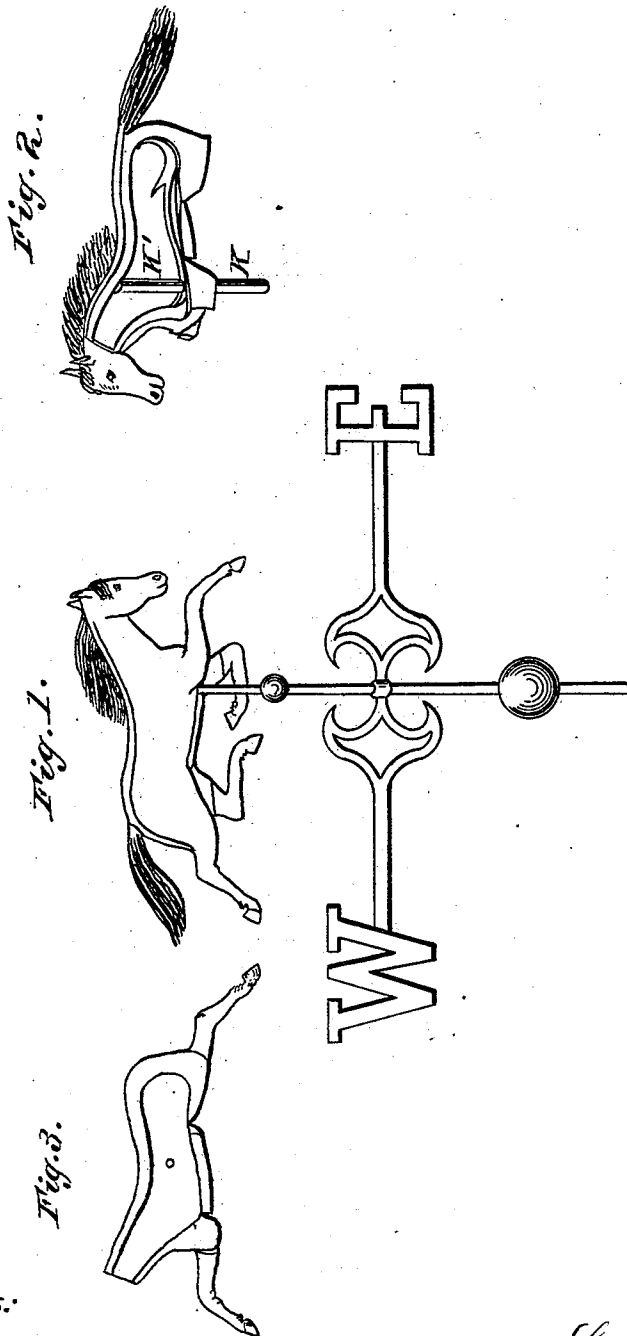


CUSHING & WHITE.

Weather Vane.

No. 81,146.

Patented Aug. 18, 1868.



Witnesses:

F. M. Stowe
E. W. Fiske.

Inventors:

L. W. Cushing
Stittman White.

United States Patent Office.

L. W. CUSHING AND STILLMAN WHITE, OF WALTHAM, MASSACHUSETTS.

Letters Patent No. 81,146, dated August 18, 1868.

IMPROVEMENT IN VANES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that we, L. W. CUSHING and STILLMAN WHITE, both of Waltham, in the county of Middlesex, and State of Massachusetts, have invented certain new and useful Improvements in the Construction of Vanes; and we do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

To enable others skilled in the art to make and use our invention, we will proceed to describe its nature and construction.

The nature of our invention consists in a new and improved method of constructing vanes, namely, we cast, of some suitable metal, a strong sectional outline of the figure to be used as a vane, said outline having affixed to it the smaller details of the figure. In case an animal is represented, a part or whole of the head, ears, tail, &c., is cast with the piece forming the outline, the outline casting also containing the socket or sockets for the spindle which supports the vane to play in, the figure being completed by using thin plates, which are shaped and convexed to give fullness to the figure.

Drawings.

Figure 1 is an elevation of our improved vane.

Figure 2 shows the "cast" outline.

Figure 3 shows one of the thin metal sides.

Our method of construction is this: If the vane is to be made in the form of a horse, we form a pattern, as shown in fig. 2, that is, the sectional outline of the horse is made of sufficient strength to hold firmly all the parts that it may be desirable to attach to it. The mane, tail, and head are worked upon the same pattern. The spindle-socket K K' may be made in the pattern and cast with it, or it may be made separately and cast into the outline, or be inserted after the casting is made. The side pieces, including the legs, are hammered or stamped up to the desired degree of fullness, and then attached to the outline casting. This completes the figure.

Our method of construction is applicable as well to figures of inanimate subjects as to animals.

The novelty of our invention consists in making an outline as a casting, said outline forming a strong frame to which the other parts may be attached, and also containing the distinguishing features of the design, and in attaching to this outline casting convex side pieces to give fullness to the figure.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

In the construction of vanes, the cast-metal outline, in combination with the plates forming the sides, substantially as described and for the purpose set forth.

L. W. CUSHING,
STILLMAN WHITE.

Witnesses:

WILLIAM EDSON,
A. HUN BERRY.