N. P. DAZEY & G. W. HALL.

SIGN.

APPLICATION FILED JUNE 19, 1908.

916,116. Patented Mar. 23, 1909.

Fig. I.

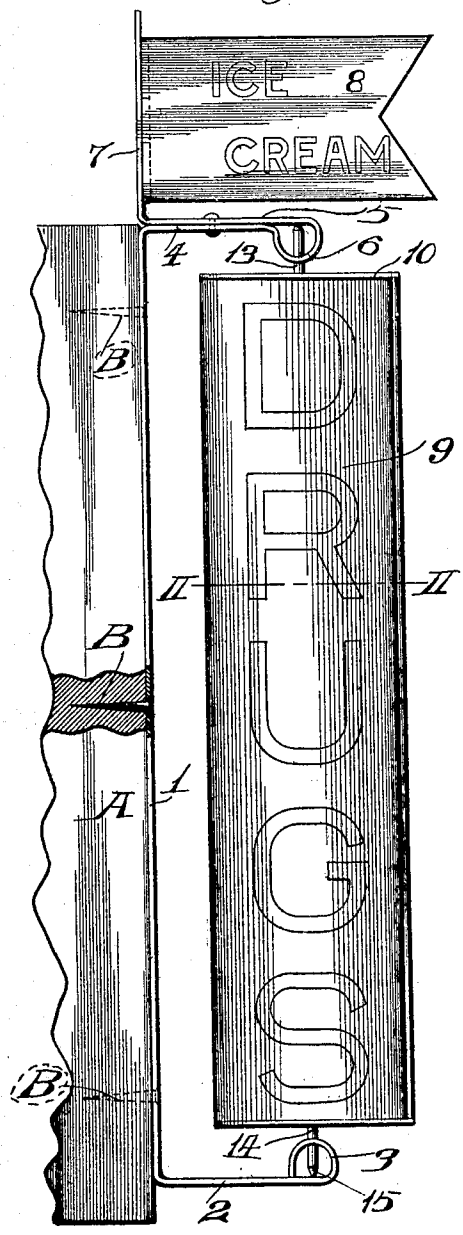


Fig. II.

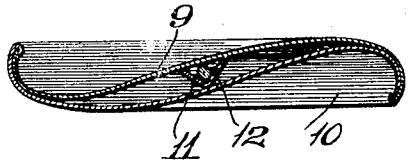
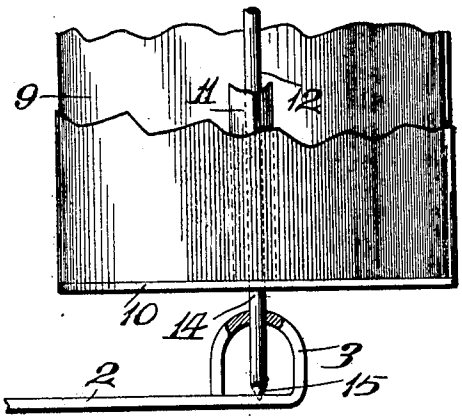


Fig. III.



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SIGN.

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Application filed June 19, 1908. Serial No. 439,279.

To all whom it may concern:

Be it known that we, NATHAN P. DAZEY and GEORGE W. HALL, citizens of the United States of America, residing in the city of Dallas, county of Dallas, and State of Texas, and in the city of St. Louis, State of Missouri, respectively, have invented certain new and useful Improvements in Signs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing, forming part of this specification.

Our invention relates to that character of signs comprising frames and revoluble sign vanes pivoted vertically in the frames and adapted to be rotated under the influence of wind or atmospheric air currents which strike against the vanes.

The vanes of signs of the kind named are ordinarily made of single thicknesses of sheet material, for instance, metal and they are therefore very susceptible of becoming warped after they are placed in use, and one of the main objects of our invention is to so construct a sign vane as to eliminate the liability of warpage thereof. When the sign vanes become warped, the lettering upon the obverse and reverse sides of the vanes are thrown out of proper positions relative to each other, and as a consequence, a blurred sign is produced when the vanes are in motion, and by our improvement we fully overcome this very objectionable feature.

Figure I is a side elevation of our sign. Fig. II is a horizontal cross section taken on line II—II, Fig. I, through the sign vane. Fig. III is in part a side elevation of the lower portion of the sign vane partially broken away, and in part an elevation and vertical section of the lower end of the sign frame.

In the accompanying drawings: 1 designates the main upright body of the frame of our sign which is adapted to be secured to a support A by suitable means, such as screws B. The support A may be the wall of a building, a post or other suitable object.

The frame is provided at its lower end with an outwardly projecting arm 2 having a return bend arm 3 which surmounts the lower arm and is spaced apart therefrom as seen in Figs. I and III. At the upper end of the frame is an upper arm 4 that is of substantially the same length as the lower arm 2 and has formed integral therewith a return arm 5 which surmounts and is riveted to the arm 4. The arm 4 has at its lower side a loop 6. The return bend arm has formed integral with it, a post 7 that extends upwardly from said arm immediately above the main upright of the frame and is adapted to serve as a support for a stationary sign plate or flag 8 that may be suitably secured to said post.

9 designates a revoluble sign vane that is positioned between the lower and upper arms 2 and 4 of the sign frame. This sign-vane is of S-shape in cross section as seen most clearly in Fig. III, thereby providing a pocket at each side of the vane into which currents of air may enter. The sign vane 9 is constructed of two sheets of material preferably metal, each of which is bent into S-shape, as seen in Fig. II, and the sheets are united at their side edges in any suitable manner, such as by crimping the edges of one sheet over the other sheet.

In order that the sheets may be maintained in the S-shape into which they are originally formed, we provide at each end of the vane 9 end brace plates 10 which are soldered or otherwise suitably secured to the ends of the S-shape plates. The S-shape plates are separated from each other throughout their central portions and to prevent their becoming warped, we introduce between the plates a resistance or stiffener member 11, preferably of V-shape. This resistance or stiffener member extends vertically from top to bottom of the sign vane, and it is preferably soldered at its ends to the brace plates 10, so that it is held centrally of the sign vane for effectual service in preventing warpage of the vane.

12 designates a pivot rod that extends vertically through the sign vane and protrudes beyond both the upper and lower ends of said vane, the rod being preferably soldered or otherwise secured to the end brace plates 10. The upper protruding end of the pivot rod serves as an upper pivot stem and the lower protruding end of said rod serves as a lower pivot stem 14 for the sign vane. The lower pivot stem 14 is, when the parts of the sign are assembled, positioned in the return bend arm 3 of the lower frame arm 2 to rotate therein and said stem is provided at its extremity with a conical bearing point 15 that rests upon the upper face of the lower arm 2, thereby providing a minimum bearing contact upon which the sign vane is supported, in order that the vane may be sus-

ceptible of rotation with very slight resistance to its movement. The upper stem 13 of the sign vane extends through a suitable opening in the loop 6 of the upper frame arm 4 to provide for the support of the upper end of the vane, and it will be perceived that, due to the stem being so extended through the loop 6, the vane may descend in its bearings when wear of the lower pivot of the vane occurs and without any liability of the vane becoming dislodged from its supporting frame or any necessity for adjustment of the vane in the frame, due to wear of the lower bearing.

We claim:

1. A revoluble sign vane comprising a pair of sheets, a rod extending between said sheets and having pivot stems projecting beyond the ends of the sheets, and a resistance member interposed between the central portions of said sheets, substantially as set forth.

2. A revoluble sign vane comprising a pair of sheets, a rod extending between said sheets and having pivot stems projecting beyond the ends of the sheets, and a resistance member interposed between and extending vertically of the central portions of said sheets around said rod, substantially as set forth.

3. A revoluble sign vane comprising a pair of sheets, a rod extending between said sheets and having pivot stems projecting beyond the ends of the sheets, and a V-shaped resistance member interposed between and extending vertically of the central portions of said sheets around said rod, substantially as set forth.

4. A revoluble sign vane comprising a pair of S-shape sheets, a resistance member positioned centrally between said sheets, brace plates secured to the ends of said sheets, and pivot stems projecting from said brace plates, substantially as set forth.

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In the presence of—
BLANCHE HOGAN,
WM. H. SCOTT.