Sept. 26, 1933. F. M. FUGMAN 1,928,449

REVOLVING SIGN

Filed June 29, 1932 2 Sheets-Sheet 1

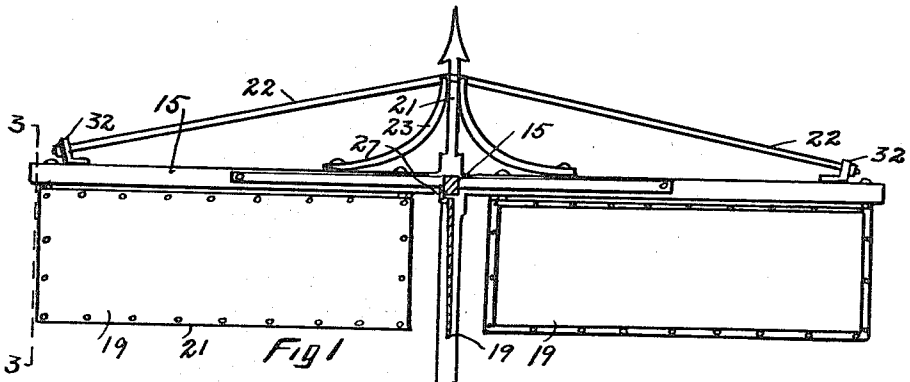


Fig 1

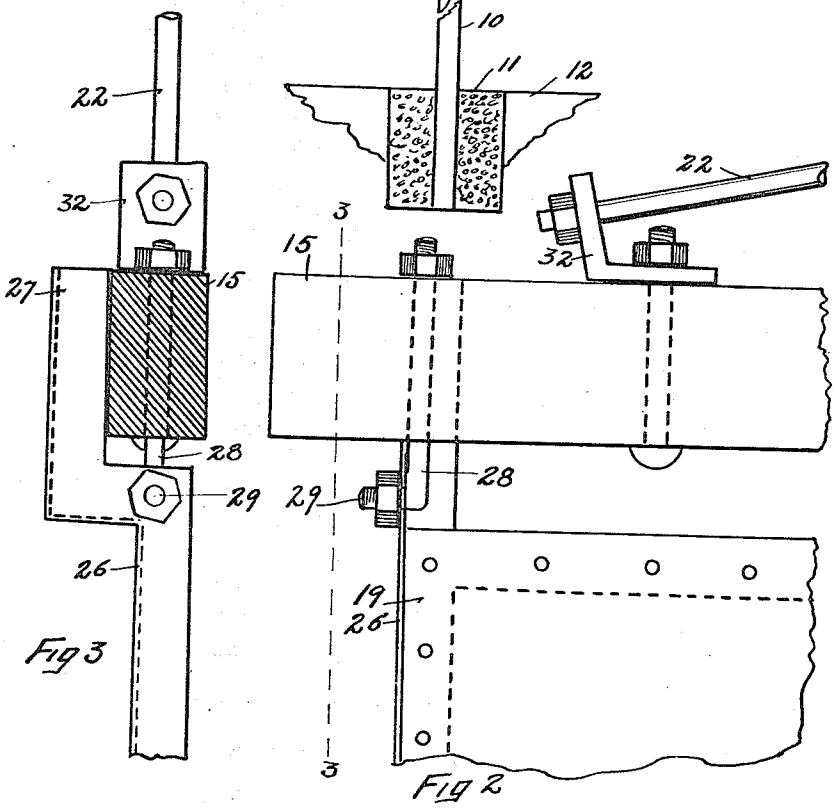


Fig 3

Fig 2

Fred M. Fugman Inventor

By Francis C. Huebner

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Filed June 29, 1932 2 Sheets-Sheet 2

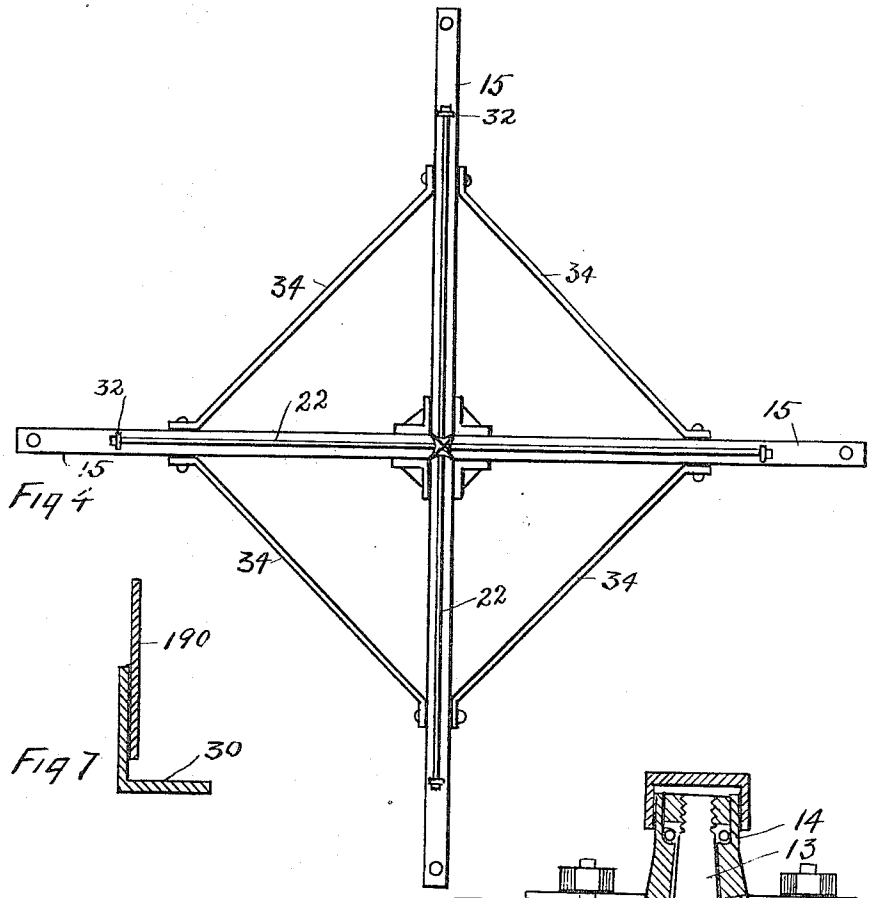


Fig 4

Fig 7

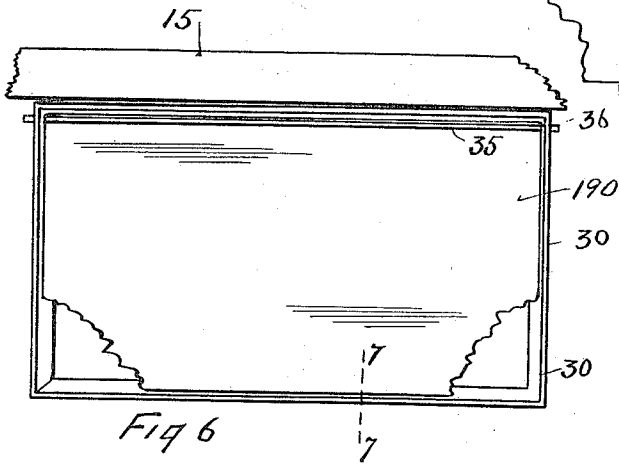


Fig 6

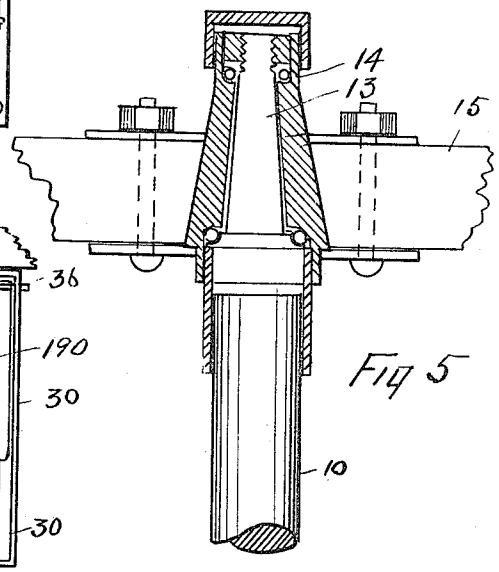


Fig 5

Inventor

Fred M. Fugman

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Patented Sept. 26, 1933 1,928,449

UNITED STATES PATENT OFFICE

1,928,449

REVOLVING SIGN

Fred M. Fugman, Fresno, Calif.

Application June 29, 1932. Serial No. 619,909

1 Claim. (Cl. 40—39)

My invention relates to a device for advertising. More specifically it relates to a device on which a plurality of advertising sign boards can be attached and which will rotate around a fixed point by the pressure of a current of air.

The object I have attained is the construction of an advertising device which can be rotated by ordinary air currents, which is cheap in construction and has very few wearing parts, and which necessitates no gearing or complicated mechanism for its operation. These objects are accomplished by means of the device illustrated on the accompanying drawings which are a part of this specification, in which drawings Fig. 1 is a front perspective view of the device. Fig. 2 is an enlarged fractional view of one of the arms from which a sign board has been suspended. Fig. 3 is an enlarged fractional end view of a sign board and its support as shown in Fig. 2 along sectional line 3—3 in Figs. 1 and 2. Fig. 4 is a top view of the device. Fig. 5 is an enlarged sectional view of the hub. Fig. 6 is a modified form of suspending the sign and modified form of stop means. Fig. 7 is an enlarged sectional view of the angle iron forming the frame of the form shown in Fig. 6, along sectional line 7—7 in Fig. 6.

Referring to the drawings, I have provided a supporting pole 10, one end of which can be embedded in a concrete base 11, which is placed in the earth 12 so that the pole will stand approximately upright. A spaced distance from the lower end of said pole a bearing 13 is formed on which bearing a hub 14 is adaped to rotate. While I have shown a ball bearing in Fig. 5, it is here noted that any suitable bearing can be used.

I have made a sign board 19 for suspension from each arm. These sign boards are constructed preferably of sheet metal but can be formed of any suitable material. As the sheet metal is usually thin and in need of a rigid support, I have placed a rigid frame 26 around the sign, and at opposing ends at the upper edge thereof I have attached projections or extensions 27. The sign board is hingedly connected with the arm by means of a hinge 28, which can consist of a depending rod attached to the arm, one end of the rod being bent and passed through a hole 29 in frame 26. It is here noted that the hinge will normally permit the sign to swing freely, but that the extension 27 will engage the arm 15 as a stop, thus permitting the sign to swing only on one side of a vertical line. As shown in Fig. 3, if the main frame surrounding the sign board is suspended by the hinge directly under arm 15, extension 27 should be appropriately bent so as to permit extension 27 to engage arm 15 when the sign board is suspended vertically. It will be noted that when these sign boards and device are positioned where they face the wind, the wind pressure on the sign board when held vertically by stop 27 will cause the sign assembly to rotate, as the pressure of the wind on the sign board opposite will cause the sign board to swing with the wind and thus be relieved of the air pressure.

In my construction I have preferred to form the frame surrounding the sign board of angle iron so that when the sign board is assembled therewith, the cup face of the assembled sign and frame will catch the wind when the sign board is held in a vertical position.

For the purpose of strengthening the device an extension 21 is attached to the hub for the purpose of supporting stays 22 and brackets 23. The anchor 32 is attached to arm 15 and to stay 22. The braces 34 connect the adjacent arms.

The modified form shown in Fig. 6 comprises a rigid frame 30 preferably constructed of angle iron with the flange on the inside of the frame. This frame is attached vertically and rigidly to the arm. The sign board 190 should be made more rigid in this form than is necessary in the other form described, and the top edge of the sign board should be hinged with hinges 32 to the inner top edge of frame 30, thus permitting the sign board to be swung out of the frame on one side only, thus accomplishing the same object described in connection with the other form. The form of hinge shown in Fig. 6 comprises a scroll or tube 35 formed on the upper edge of the sign board, and inserting a rod 36 through said tube or scroll and through the frame 30 on either side thereof.

It is noted that the stop device on each of the frames or arms should be uniform on each arm, so that such stopping devices should all be on the same side of the frame when the arm is passing a given point in the rotation of the device.

Other means than those shown for holding the signs in a rigid upright position when pressed by an air current on a selected side can be substituted. My invention is intended to cover the broad idea of rotating the sign assembly in the manner described.

Having described my invention I claim as new and ask for Letters Patent:

In a device of the character described, the

combination of a supporting frame consisting of a plurality of arms positioned so that they radiate from a common center, said supporting frame being pivotally mounted at said common center, a sign board hingedly connected with each of said arms adapting them to hang downwardly, and to normally swing on a vertical plane, stop means attached to said supporting frame adapted to prevent said sign boards from swinging beyond a vertical position on a selected side, but permitting said sign boards to swing freely on a vertical plane in the opposite direction.

FRED M. FUGMAN.