No. 793,702. PATENTED JULY 4, 1905.

E. O. WILCOX.

REVERSIBLE BLADE FOR CHANGEABLE ADVERTISING MACHINES.

APPLICATION FILED DEC. 16, 1904.

2 SHEETS—SHEET 1.

FIG. 1

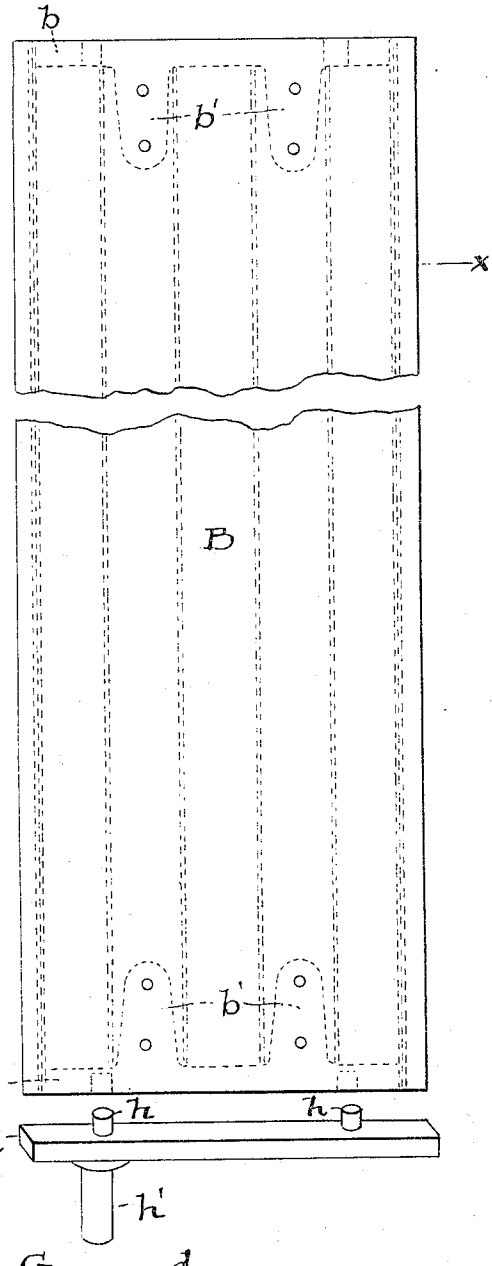


FIG. 2

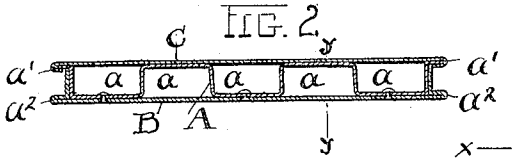


FIG. 3

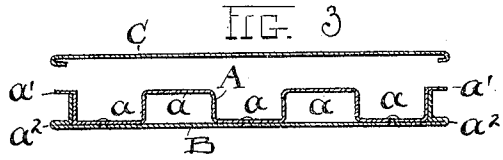


FIG. 4.

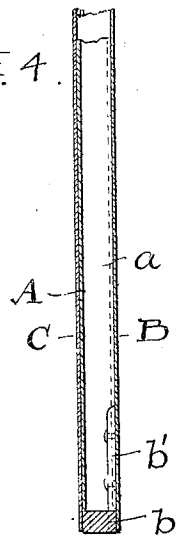
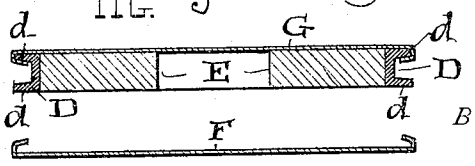


FIG. 5



WITNESSES:

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2 SHEETS—SHEET 2.

Fig: 6.

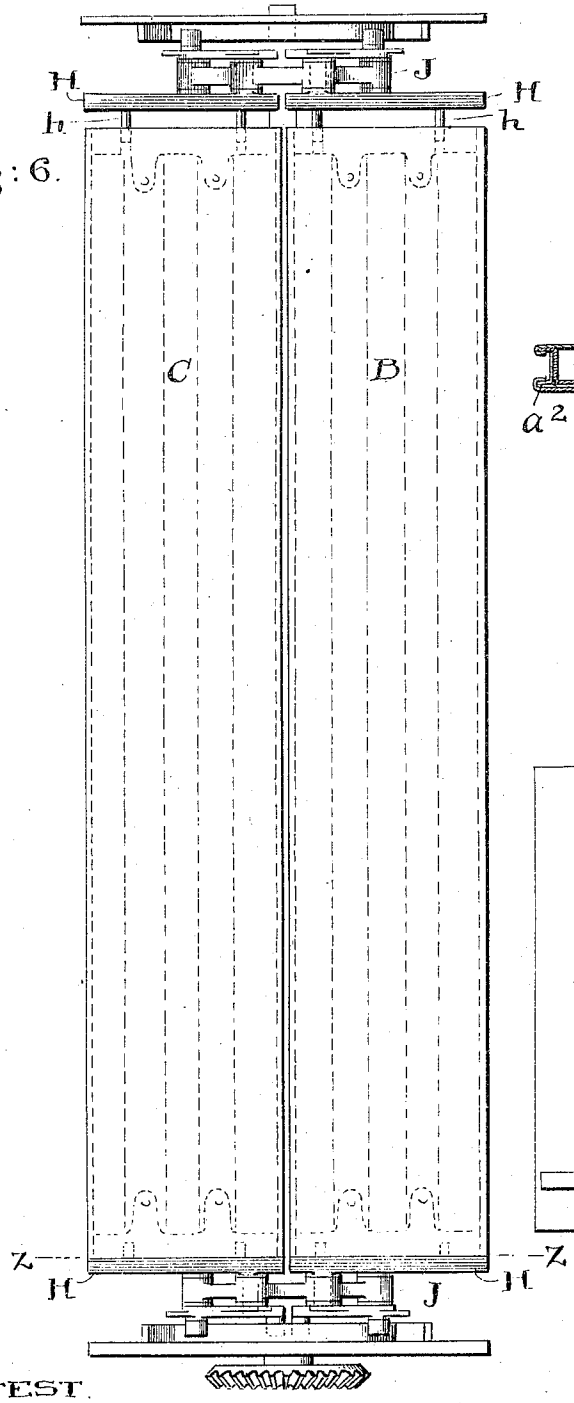


Fig: 7.

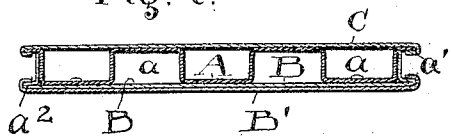
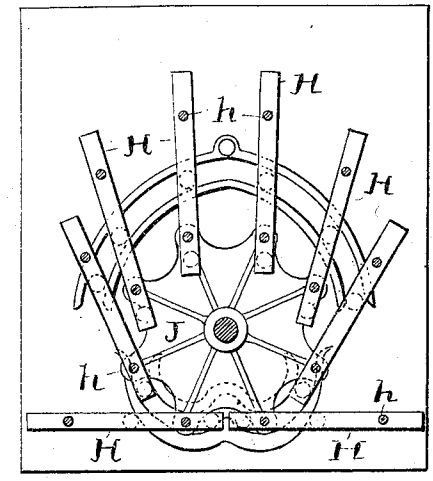


Fig: 8.



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No. 793,702. Patented July 4, 1905.

UNITED STATES PATENT OFFICE.

ELMORE O. WILCOX, OF CLEVELAND, OHIO.

REVERSIBLE BLADE FOR CHANGEABLE-ADVERTISING MACHINES.

SPECIFICATION forming part of Letters Patent No. 793,702, dated July 4, 1905.

Application filed December 16, 1904. Serial No. 237,158.

To all whom it may concern:

Be it known that I, ELMORE O. WILCOX, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Reversible Blades for Changeable-Advertising Machines; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to reversible blades for changeable-advertising machines; and the invention consists in a blade constructed and adapted to be used substantially as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of one of my new blades with operating members therefor shown at its ends. Fig. 2 is a cross-section thereof on line $x\,x$, Fig. 1; and Fig. 3 is a substantially similar cross-sectional view, except that in this case one of the face-plates is shown as detached. Fig. 4 is a lengthwise section of the lower portion of the blade on a line corresponding to $y\,y$, Fig. 2. Fig. 5 is a view of a modified form of blade. Fig. 6 is a front elevation of a pair of my improved blades as operatively mounted upon an advertising-machine of changeable-display character. Fig. 7 is a cross-section of a modification of blade. Fig. 8 is a plan view and section of the operating part of the machine as seen from line $z\,z$, Fig. 6.

The blades as thus shown belong to an advertising-machine invented by me and are adapted to exhibit an advertisement complete and perfect in its entire outline, as it may be displayed upon a series of consecutive or "successive" blades, so called, which travel in an orbit from and to the exhibitory plane and are arranged to aline themselves closely edge to edge when exhibition occurs and then quickly reverse to bring another picture or advertisement to view, and so on, the said blades moving forward a step each time as reversal occurs and a series of blades being connected up in endless-chain fashion, as the machine itself clearly discloses. A single one of said blades is shown herein with a simple modification thereof, and each machine is supposed to comprise several series of blades working harmoniously together.

In the form of blade disclosed in Figs. 1 to 4, inclusive, the blade is constructed with a sheet-metal body A, struck up with channels a longitudinally and upon opposite sides successively or alternately to give strength and body, and the face or advertising plates proper are supported upon the said body. In this instance one of said plates B is shown as fixed by rivets to the body A, but not necessarily, the advantage of thus securing one plate directly to the body being to give the body perfect rigidity. The other plate C is adapted to slide lengthwise upon the body A and to be removed therefrom when a new sign-plate is to be substituted or for other reasons. To this end the said plate C has its side edges bent back upon itself and adapted to slide over the exposed edges or projections a' of the body A. This, too, makes a cross-binder of plate C to stiffen and strengthen the entire blade. The ends of this form of blade are provided with end pieces b, which have tongues b', as here shown, reaching upward and riveted to plate B, while the said piece itself rests against the ends of the body A, and the plate C overlaps said end pieces on the opposite side from B, so that the ends of the blade are even and flush. The said end pieces have sockets or holes adapted to receive the pins h on the actuating-pieces H, by or through which the blades are operatively and removably engaged at their ends. These pieces have spindles or journals h' near one end, on which they are adapted to turn in the machine. (Not shown.) If desired, a supplemental plate B′ can be engaged over the fixed plate B, very much as plate C is secured in place on the other side by engaging the said plate over the edge projection a^2.

In Fig. 5 I show a modification with a rigid outer frame of metal and a filling E of wood, and in this instance both plates F and G are detachably engaged along their edges over the edges or edge projections d of the frame D. It will be noticed as a feature of both face or display plates B and C and F and G that said

plates extend to or over the side edges of the blades, so that they cover the entire face thereof, and thus are in form to aline closely at their edges with plates of adjacent series, and whereby a close and continuous display-surface is afforded.

In Figs. 6 and 8 I show one type of machine adapted to use my improved blades and wherein a series of actuating-pieces H are rotatably mounted upon a rotary support J and with which pieces said blades are detachably connected, as previously described.

What I claim is—

1. A blade for a changeable-advertising machine consisting of a body and a display-plate having its edges overlapping the edges of said body and slidably engaged thereon.

2. A blade for a changeable-advertising machine comprising a suitable body provided with dual lateral projections along each edge lengthwise, and display-plates removably engaged over said projections.

3. A blade for a changeable-advertising machine comprising a body portion and removable sides and carrying pieces fixed rigidly across the ends of the blade and constructed to make operative engagement therewith.

4. A blade for a changeable sign, in combination with an operating member for the blade at each end separably connected with said blade and provided with a spindle near one end by which the blade is reversibly supported.

5. A blade for a changeable-advertising machine comprising a suitable body provided with a continuous flange-like projection along each side edge, in combination with a sheet-metal plate having its edges turned back upon itself and removably engaged over said projections.

6. A blade for a changeable sign comprising a sheet-metal body formed with longitudinal ribs and channels adapted to stiffen the blade laterally, and provided with a removable face-plate detachably secured to said body.

7. A blade for a changeable sign comprising a sheet-metal body formed with longitudinal ribs and channels and having stiffening end pieces, in combination with separate removable face-plates detachably secured to said body.

In testimony whereof I sign this specification in the presence of two witnesses.

ELMORE O. WILCOX.

Witnesses:
R. B. MOSER,
C. A. SELL.