

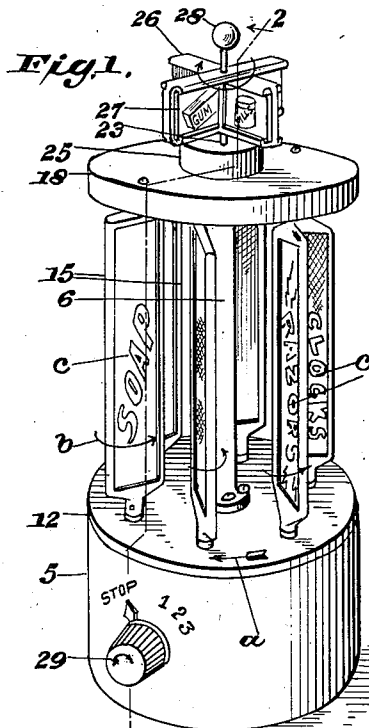
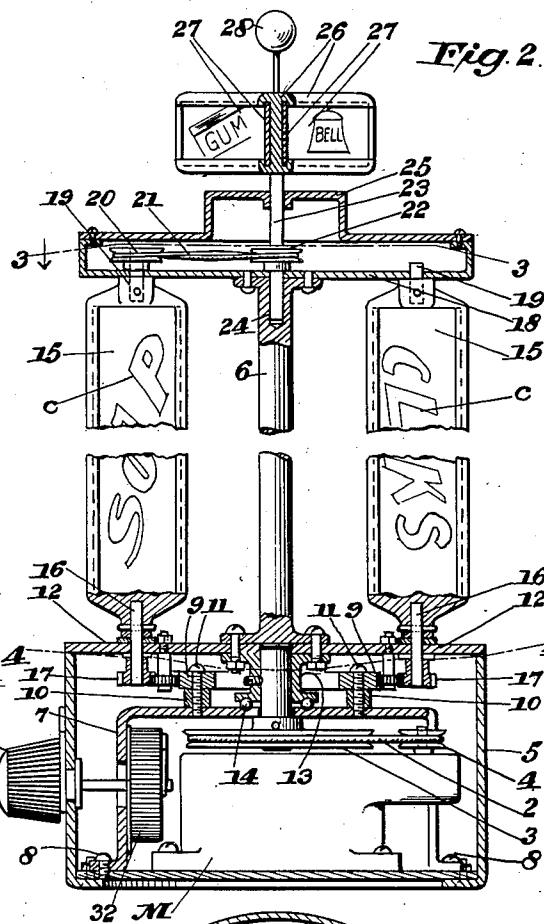
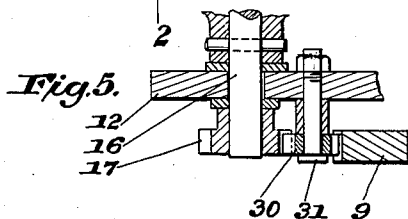
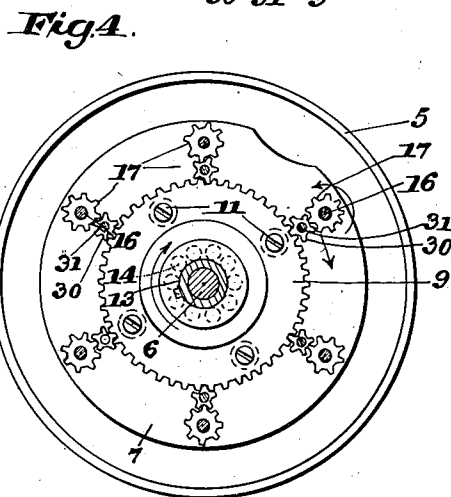
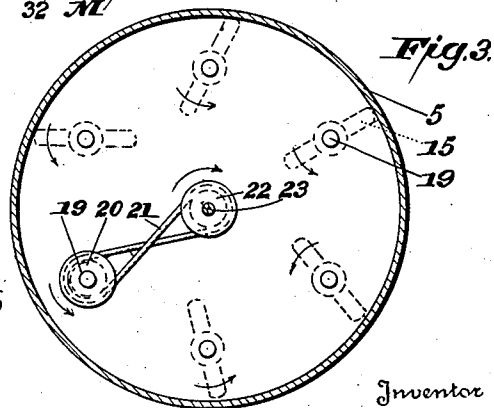
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ADVERTISING DEVICE

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ADVERTISING DEVICE

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2 Claims. (Cl. 40—33)

My invention relates to improvements in advertising devices, and it consists in the combinations, constructions, and arrangements herein described and claimed.

An object of the invention is to provide an advertising device which may be set on the counter of a store or in some other conspicuous position, and which has movable parts so as to attract attention.

A further object is to provide an advertising device of the class described having a plurality of vanes or plates, each of which not only revolves about its central axis but revolves oppositely to the direction in which the whole group of said vanes revolves, thereby insuring the advertising matter on said vanes remaining in view longer than otherwise.

A further object is to provide a second group of vanes which revolves in the same direction as that in which the main group revolves, but oppositely to the vanes themselves in said main group.

My invention is illustrated in the accompanying drawing forming part of this application, in which:

Figure 1 is a perspective view of the device,
Figure 2 is a vertical sectional view along the line 2—2 of Figure 1,

Figure 3 is a substantially horizontal section along the line 3—3 of Figure 2,

Figure 4 is a similar section along the line 4—4 of Figure 2, and

Figure 5 is a detail sectional view illustrating the support for the reversing idler.

In carrying out my invention I provide a base portion 5 in the form of a cylindrical box. Within this cylinder is a motor M having a speed-reducing driving connection with the bottom extension of a shaft 6. Said driving connection consists of small and large pulleys 4, 3 and a connecting belt 2. A bracket 7 is secured to the bottom of the box-like container 5, as shown at 8. This bracket extends above the motor, as shown in Fig. 2. Mounted on the bracket is a stationary ring gear 9, spacers 10 being provided and the gear being secured to the bracket by means of bolts 11 or in any other suitable manner.

Secured to the shaft 6 is a rotatable vane supporting plate or top portion 12 which is provided with a thrust bearing 13 having anti-friction devices 14. The motor driving connection 2, 3, 4 may revolve the plate 12 either clockwise or counterclockwise, the clockwise direction (arrow a, Fig. 1) being chosen merely for illustration.

Carried by the plate 12 is a circular group of vanes 15. Each vane has a depending spindle 16

which passes through the plate 12, and the lower end of which fixedly carries a gear 17 in mesh with an idler 30 (Fig. 4) which, in turn, is in mesh with the stationary ring gear 9. Each idler is suspended from the plate 12 by a support 31 on which the idler revolves. The effect of the intermediary idler 30 is to cause the respective vane 15 to revolve to a direction (counterclockwise in this instance, arrows b, Fig. 1) opposite to that of the plate 12, consequently opposite to that of the whole group of vanes, thereby keeping the advertising matter C in view longer than otherwise.

The upper end of the shaft 6 is secured to a box-like casing 18 of a diameter commensurate with that of the box casing or base 5. The shaft 6, plate 12 and casing 18 comprise a unit and, collectively, are the supporting means for the main group of vanes. The upper ends of the vanes have a stub-shaft or spindle 19 which is journaled in the lower wall of the casing 18.

One of the vanes has its stub-shaft 19 prolonged, and is provided with a pulley 20 thereon, which is connected by a crossed belt 21 with a pulley 22 on a spindle 23 which is journaled in a socket 24 at the upper end of the shaft 6. This spindle 23 passes through a central enlargement 25 of the casing 18. Secured to this central spindle 23 is an X-shaped frame 26 having slots for receiving advertising cards or plates 27 which may be placed therein on each side of each arm of the X-shaped frame.

A ball 28 or other ornamental object may be placed at the top of the X-shaped frame. The motor is designed to be actuated by a switch 32 having a plurality of speeds like a fan, these speeds being controlled by the turning of the thumb-wheel 29, as shown in Figs. 1 and 2, to positions indicated on the outer surface of the container or base 5. The specific features of the switch or rheostat which gives these desired speeds form no part of the present invention.

On turning the wheel 29 current is supplied to the motor which then rotates and revolves the plate 12 clockwise (arrow a, Fig. 1) and with it the casing 18, so that the main group of vanes revolves clockwise as a unit. The gears 17 deriving motion from the stationary ring gear 9 by virtue of proceeding around it, but having the idlers 30 interposed, cause the rotation of each vane 15 on its longitudinal central axis in the counterclockwise direction (arrows b, Fig. 1), the speed of revolution of each vane being the same since the gears are of equal diameter.

The rotation of one of the vanes 15, i. e., the

one at the left shown in Fig. 2, causes the rotation of the shaft 23, but because of the belt 21 being crossed (Fig. 3) the direction of revolution of the X-shaped frame 26 is opposite to that of the vanes 15, but the same as that of the whole group of said vanes.

Therefore the advertising device presents the spectacle of a main group of vanes moving in one direction, the individual vanes of that group revolving in the opposite direction, and a lesser group of vanes which revolve in the same direction as the main group. The chief advantage of having the individual vanes of the main group revolve as they do, is to insure the advertising matter staying in view longer than otherwise, the foremost purpose of any advertising device being to impress the minds of the observers as deeply as possible.

I claim:

1. An advertising device which consists of a plurality of vanes, supporting means on which the vanes are arranged in a main and circular group, a second group of vanes carried by the supporting means, means to revolve the supporting means in one direction, means to simultaneously revolve

the vanes in the main group oppositely to the supporting means, and means driven by one of the main vanes simultaneously making the second group of vanes revolve in the same direction as the supporting means.

2. An advertising device comprising a base which has a fixed bracket, supporting means which consists of a shaft and two elements spaced apart thereby, one of said elements being a plate, a step bearing by which the shaft has rotating support on the bracket, means to rotate the shaft hence revolve the entire supporting means in reference to the base, a ring gear and means by which it is affixed to the bracket, a plurality of vanes arranged in a main circular group in the space between said elements, each vane having a spindle journaled on said plate and carrying a pinion, an idler between each pinion and the ring gear and means by which the idlers are carried by the plate, a second group of vanes above one of the elements and having a spindle which is journaled in a socket in the shaft, and means to drive the last said spindle from one of the main vanes.

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