Nov. 11, 1924.

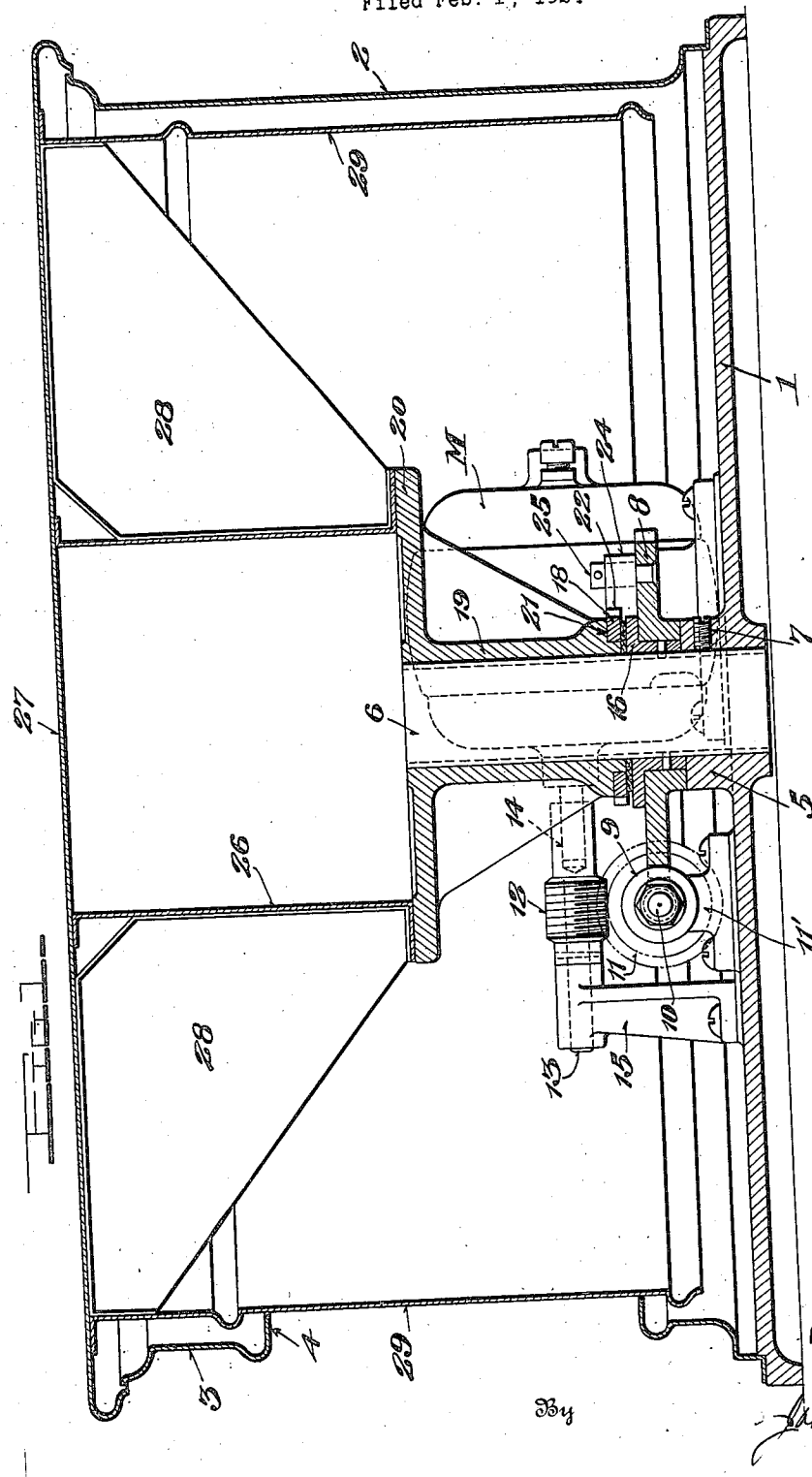
1,515,443

J. M. REDINGER

INTERMITTENTLY REVOLVING DISPLAY STAND

Filed Feb. 1, 1924

2 Sheets-Sheet 1



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2 Sheets-Sheet 2

FIG. 2

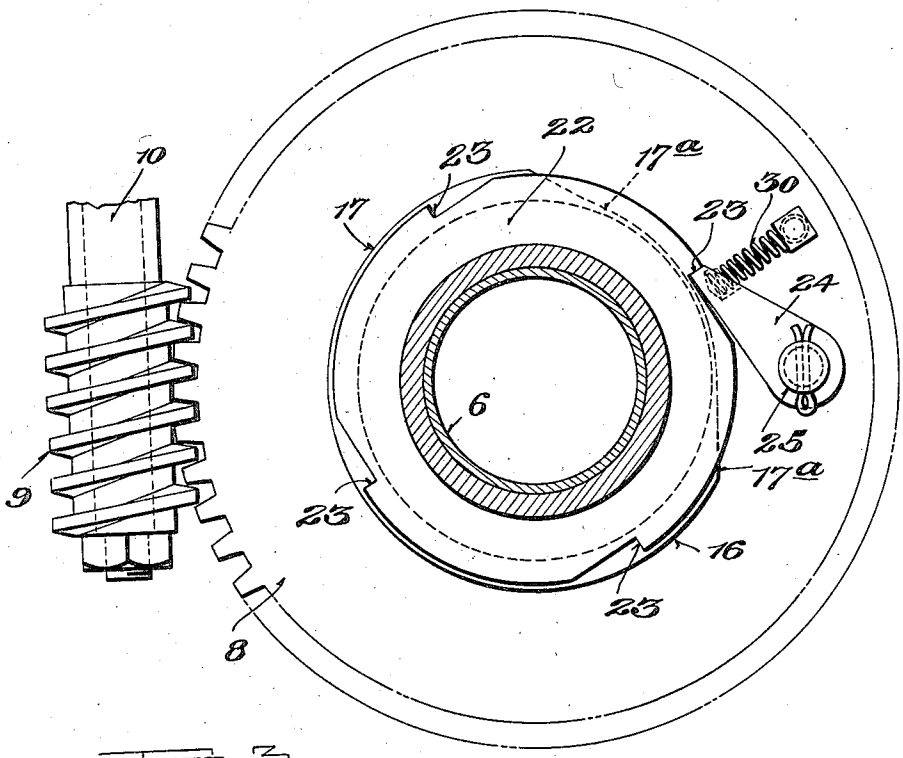
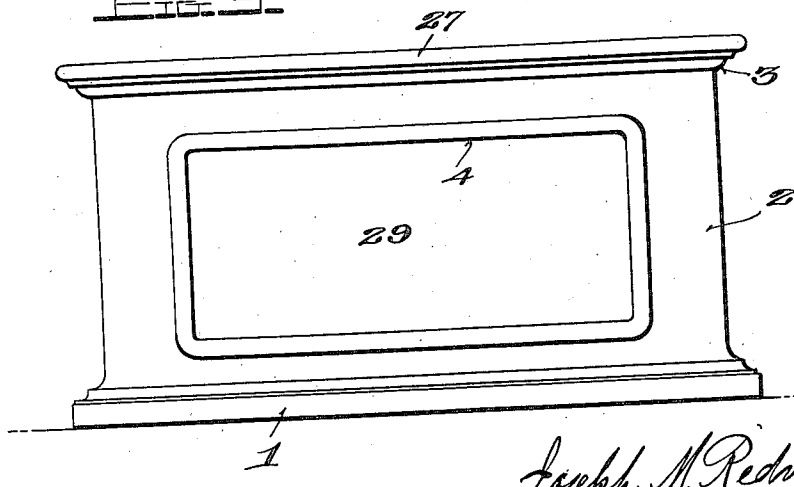


FIG. 3



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UNITED STATES PATENT OFFICE.

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INTERMITTENTLY-REVOLVING DISPLAY STAND.

Application filed February 1, 1924. Serial No. 690,045.

To all whom it may concern:

Be it known that I, JOSEPH M. REDINGER, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented new and useful Improvements in Intermittently-Revolving Display Stands, of which the following is a specification.

This invention relates to certain new and useful improvements in intermittently revolving display stands, and the primary object of the invention is to provide novel means for effecting intermittent rotation of a drum which carries advertising matter.

A further object of the invention, is to provide a device of this type wherein the drum, which carries the advertising matter exposes the latter through a window or sight opening, and also carries and displays the article to which the advertisement relates.

A still further object of the invention is to provide simple and positively operating means for effecting intermittent rotation of the drum.

The invention has still further and other objects which will be later set forth and of themselves manifested in the course of the following description.

In the drawings:

Figure 1 is a central longitudinal sectional view of the invention;

Figure 2 is an enlarged detail view of the intermittent driving means; and

Figure 3 is a front elevation.

In proceeding in accordance with the present invention, a base 1 is employed upon which is secured a stationary drum or casing 2. The casing may be of circular, oblong or other desired form and preferably has moulding 3 at its top, and a sight-opening or window 4 in a side thereof.

The base 1, is provided with a boss or collar 5 in which is received the lower end of a vertical metal sleeve 6, the latter being rigidly secured to the collar 5 by a set screw 7. A worm wheel 8 is rotatably mounted on the sleeve 6 and seats upon the collar 5 and is in mesh with a worm 9 mounted on a shaft 10, the latter journaled in a bracket 11′ secured to the base 1. The shaft 10 has a worm wheel 11 fixed thereon, the latter being meshed with a worm 12 on an extension 13 of the motor spindle 14. The spindle 13 is journaled at its outer end in a bracket 15 secured to the base 1.

A pawl releasing cam 16 is rigidly affixed to the sleeve 6 and as shown in Figure 2 of the drawings is formed with a high cam face 17 and a low cam face 17ª. A preferably fiber thrust washer 18 seats on the cam 16 and encircles the sleeve 6. A hub 19 is rotatably mounted on or over the sleeve 6 and has a flanged head 20 and a cutout 21 in its lower end in which latter a ratchet wheel 22 is rigidly affixed. As shown in Figure 2 of the drawings the ratchet wheel 22 has four teeth 23, engaged by a pawl 24 the latter being secured by a stud 25 to the worm wheel 8 and is tensioned by a coil spring 30. A sleeve 26 is connected to the head 20 of the hub 19 and upon which a top 27 is affixed and supported by a series of braces 28. A drum 29 is secured to the top and to the braces and has the advertising matter affixed to its periphery.

In operation, the motor M drives the worm wheel 8 and since the latter carries the pawl 24, the latter will engage the ratchet teeth 23 of the ratchet wheel 22 and rotate the latter and thereby the drum 29 until the high cam face 17 is encountered, the latter moving the effective end of the pawl out of engagement with the teeth 23 and maintaining same free of engagement throughout the time the pawl is riding over the cam face. During this period of disengagement of the pawl, the drum 29 remains stationary.

The top 27 affords a support upon which the articles being advertised may be placed. When the pawl registers with the low cam face 17ª, the same will be permitted to engage the ratchet teeth 23, so as to further rotate wheel 8.

Obviously, the drum, as well as the casing, may be of oblong, square or other shape.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is;—

1. In a rotary display stand, a base, a casing on the base having a window, a sleeve rigidly secured to the base, a worm wheel rotatable on the sleeve, means to actuate the worm wheel, a cam having a high and a low side rigidly secured to the sleeve, a hub rotatable on the sleeve, a ratchet wheel rigidly secured to the hub, a pawl carried by the worm wheel and engageable with the teeth of the ratchet wheel when in register with the low side of the cam and being moved by the high side of the cam out of engagement with the ratchet teeth, a flanged head on the hub, a sleeve secured to the

head, a top on the sleeve, a drum in the casing, and means to connect the drum to the hub so as to rotate with the latter.

2. In a rotary display stand, a base, a casing on the base having a window, a rotatable drum in the casing, a worm wheel, means to rotate the wheel, a pawl carried by the wheel, a ratchet wheel fixed to the drum and engageable with the pawl, and a fixed cam having faces engageable with the pawl to control the engagement thereof with the ratchet teeth so as to effect intermittent rotation of the ratchet wheel and thereby corresponding rotation of the drum.

3. In a rotary display stand, a casing having a window, a drum rotatable in the casing and formed to receive advertising matter so as to expose same through the window and having a top to receive articles thereon so as to expose the latter above the top of the casing, and means to effect intermittent rotation of the drum.

4. In a rotary display device, a casing having a window, a rotatable advertising carrying member in the casing having a top to receive and expose articles above the casing top and means to rotate the member.

5. In a rotary display device, a casing having a window, a rotatable advertising carrying member in the casing having a top to receive and expose articles above the casing top, means to rotate the member, and means to intermittently render the rotating means inoperative.

6. In a rotary display device, a casing having a window, a rotatable advertising carrying member in the casing having a top to receive and expose articles above the casing top, means to rotate the member, and cam means to render the rotating means inoperative at predetermined intervals.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH M. REDINGER.

Witnesses:
S. N. McCLARENCE,
J. A. MILLER.