May 1, 1934. C. H. ERNE 1,957,329

REEL FOR VENDING MACHINES

Filed July 30, 1932

Fig. 1

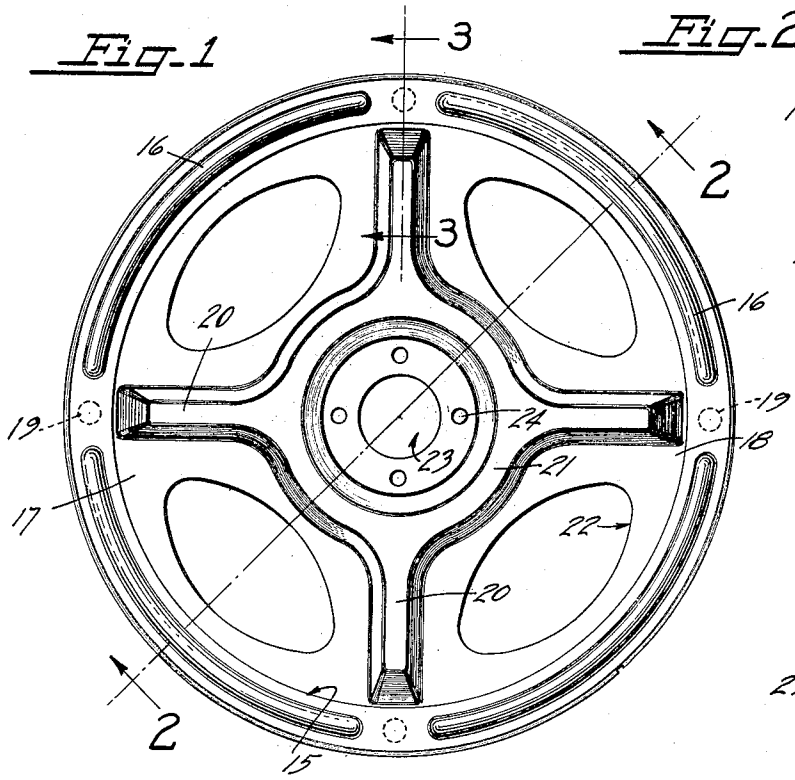


Fig. 2

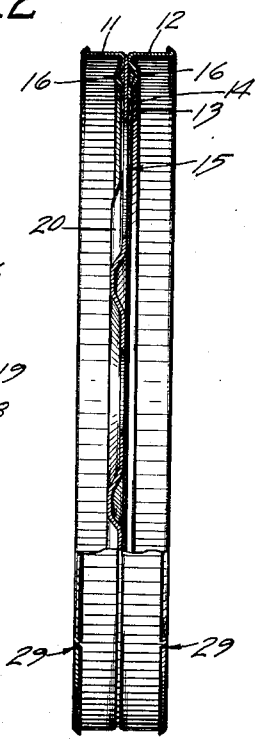


Fig. 3

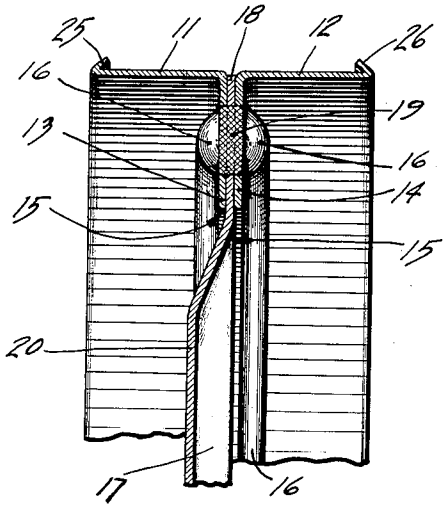
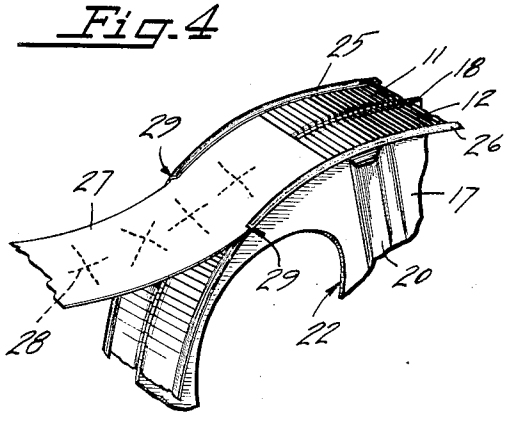


Fig. 4



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REEL FOR VENDING MACHINES

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2 Claims. (Cl. 40—68)

The present invention relates to reels for carrying advertising or display strips and is particularly adapted for use in vending machines wherein the advertising strip is caused to move with rotation of the reel.

The principal object of the present invention is the provision of a reel composed of simple, easily assembled parts which may be rigidly secured together to form a compact unit as by a simple welding or other suitable operation.

A further important object of the invention is the provision of a reel of the character described which is formed of three cooperating elements, each of simple construction, two of these elements providing a support for advertising or display matter and the third element supporting the other two.

Numerous other objects of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawing, discloses a preferred embodiment thereof.

Referring to the drawing:

Figure 1 is a front elevation of a reel embodying the present invention;

Fig. 2 is a transverse sectional view, taken substantially along the line 2—2 in Fig. 1, the lower part being shown in elevation;

Fig. 3 is an enlarged sectional detail taken substantially along the line 3—3 in Fig. 1; and

Fig. 4 is a fragmentary perspective view of the reel and illustrating the insertion of an advertising or display strip.

The reel, illustrated in the drawing as a preferred embodiment of the present invention, comprises three members, two of which are substantially of the same ring-like shape and form, one being right-hand, the other left-hand. The third member or element is preferably drawn or stamped out of suitable sheet material, such as the ordinary tin plate, and is reinforced and embossed to provide a disc of rigid construction. The two right and left-hand ring members are preferably welded on opposite sides or faces of the disc so that a unit reel results which is unusually rigid and substantial in construction and which is ideally adapted for the purpose described.

In the drawing the two matched members referred to preferably comprise a pair of hollow metal rings having, respectively, cylindrical walls 11, 12 and inner flanges 13, 14 bent at substantially right angles to the cylindrical wall parts. Each ring may be stamped out of a single sheet of material or it may be rolled up from a strip but however made it is formed with a central opening 15 inside of the inner edges of the inner flanges. Each flange is preferably reinforced by segments of a circular bead 16 struck up from the material of the flange, there being illustrated in the drawing four reinforcement segments for each of the ring members.

The cylindrical walls 11, 12 of the ring members are of the same diameter and their flanges 13, 14 are formed so that one is left-handed and the other right-handed. A central supporting disc 17 is used to complete the reel unit and an outer marginal flat portion 18 is inserted between and is connected to the flanges 13, 14 of the ring members. This interposed disc holds the ring flanges in spaced alignment.

A satisfactory connection for this purpose is made by spot welding, the parts being joined in welded joints 19 disposed preferably between the ends of the reinforced segments 16 of the ring members. The disc 17 may be stamped out to simulate a wheel as by pressed-out reinforcements or spoke sections 20 and a central reinforced hub 21. To lighten the reel, parts of the disc wall intermediate the spoke sections 20 may be removed forming openings 22.

In its use within a vending or other type of machine, the disc 17 is mounted on a hub or shaft and to permit such a mounting it is formed with a central hole 23 and openings 24 are also cut through the disc wall adjacent the opening 23 for connecting purposes.

The outer edges of the cylindrical walls 11, 12 are bent back in outer annular flanges 25, 26 and into the channel formed between these flanges, an advertising or display strip 27 is placed and held on the reel. Such a strip may have the desired display printing or legend as indicated by the broken lines 28 in Fig. 4 and this printing surface, when the strip is in place, will form the outer peripheral wall of the reel. Two slits 29 are preferably cut across the outer flanges 25, 26 and permit insertion of the strip into its place. After insertion the strip is held securely by the confining edges of the outer flanges.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description and it will be apparent that various changes may be made in the form, construction and arrangement of the parts, without departing from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. In a sheet metal reel for holding and displaying a display strip, comprising in combination, a central one piece disc adapted to function as a hub and wheel and a pair of separate outer strip supporting members, said members being substantially L-shaped in cross section, opposed annular legs of said members being secured to said disc with a marginal portion of said disc intermediate said legs and the remaining legs of said members forming a substantially smooth and cylindrical strip support.

2. In a sheet metal reel for holding and displaying a display strip, comprising in combination, a central one piece disc adapted to function as a hub and wheel and a pair of separate outer strip supporting members, each of said members being formed with wall portions at an angle to each other, corresponding wall portions of said members being spot welded to said disc with a marginal portion of said disc intermediate said portions and the remaining wall portions of said members forming a support for a display strip and having means to hold said strip in place.

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