

Jan. 26, 1932.

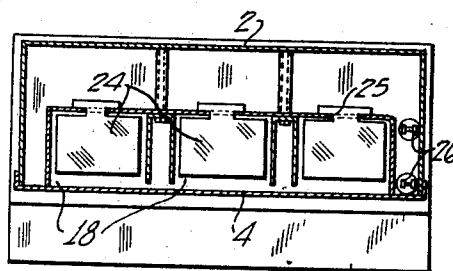
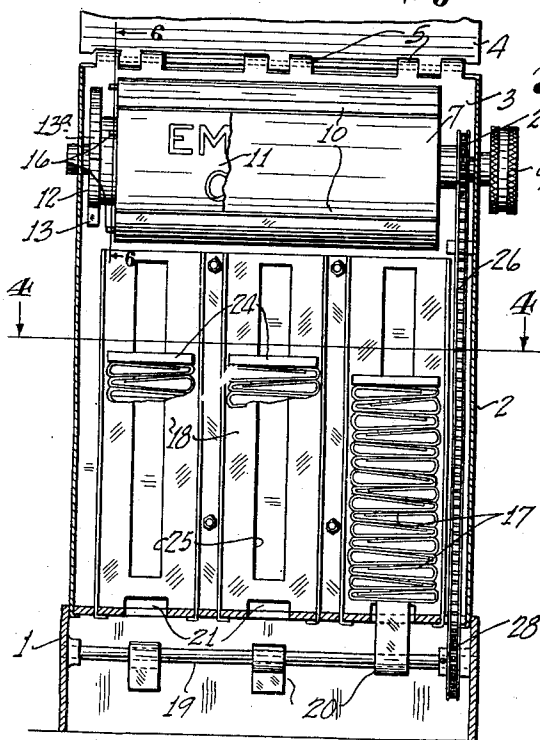
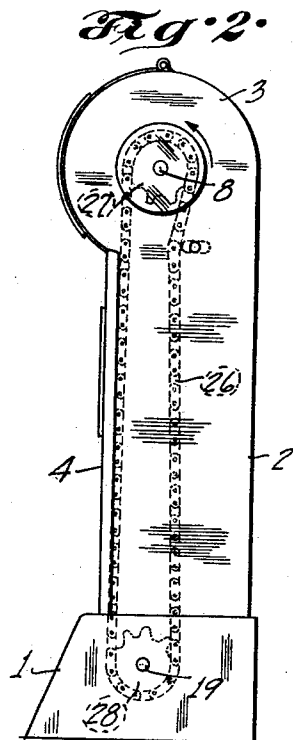
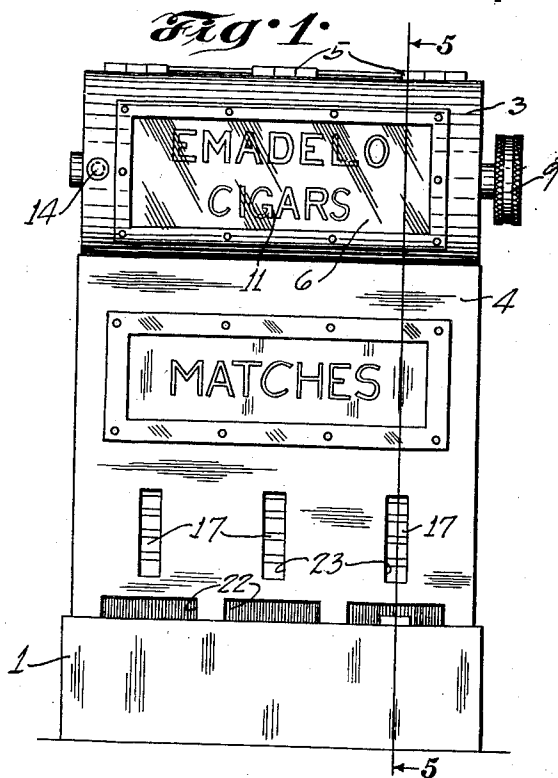
B. BOGOSLOWSKY

1,842,930

COMBINED ADVERTISING AND DISPENSING DEVICE

Filed April 15, 1929

2 Sheets-Sheet 1



INVENTOR
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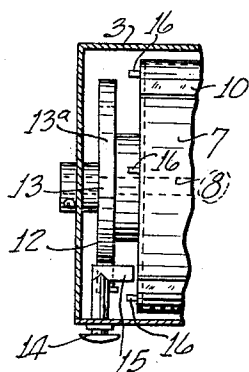
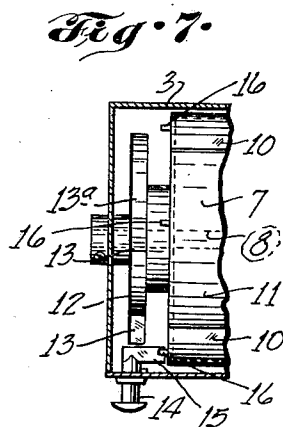
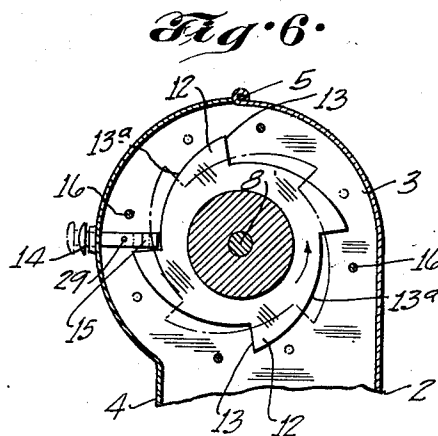
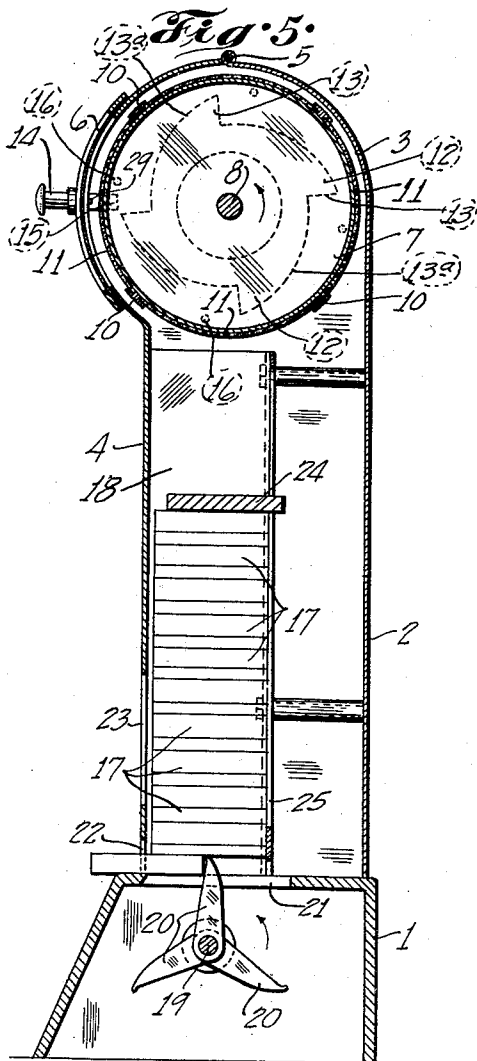
B. BOGOSLOWSKY

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COMBINED ADVERTISING AND DISPENSING DEVICE

Filed April 15, 1929

2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

BORIS BOGOSLOWSKY, OF FERGUSON, MISSOURI, ASSIGNOR TO THE UNIVERSAL MATCH CORPORATION, OF ST. LOUIS, MISSOURI, A CORPORATION OF DELAWARE

COMBINED ADVERTISING AND DISPENSING DEVICE

Application filed April 15, 1929. Serial No. 355,303.

This invention relates to a certain new and useful improvement in combined advertising and dispensing devices.

My invention has for its prime object the provision of a device adapted for exhibiting one by one in succession for visual inspection respective advertising-displays or the like of a series, and combinedly dispensing simultaneously upon each such respective exhibition a useful or desired article or commodity.

My invention has for a further object the provision of such a device as that stated in which the desire to possess the dispensed article or commodity offers or forms an incentive for effecting actuation of the display-exhibiting instrumentalities of the device.

My invention has for another object the provision of such a device in which the actuating-means of the dispensing instrumentalities of the device is so located relatively to the exhibited display as to substantially compel visual inspection thereof to obtain one of the dispensed articles.

My invention has for still further objects the provision of such a device which may be inexpensively manufactured, which is simple and compact in construction, which is conveniently and readily operable, and which is efficient in the performance of its intended functions, and to improve generally upon devices of the class described.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts hereinafter described and pointed out in the claims.

In the accompanying drawings,—

Figure 1 is a front elevational view of a combined advertising and dispensing device embodying my invention;

Figure 2 is a side view of the device;

Figure 3 is a view of the device similar to that of Figure 1, the front cover of the device being shown, however, as swung into open position to expose the working parts;

Figure 4 is a transverse sectional view of the device taken approximately along the line 4—4, Figure 3;

Figure 5 is a vertical or longitudinal sec-

tional view of the device taken approximately along the line 5—5, Figure 1;

Figure 6 is a detail sectional view taken approximately along the line 6—6, Figure 3;

Figure 7 is a fragmentary frontal view of the portion of the device as shown in Figure 6, but with the parts illustrated in a different position; and

Figure 8 is a view similar to Figure 7, but with the parts illustrated in the same relation as shown in Figure 6.

Referring now more in detail and by reference characters to the drawings, which illustrate a preferred embodiment of my invention, the device includes a suitable base 1, mounted upon which is an upstanding housing or shell 2 comprising in its upper portion an approximately tubular compartment 3, the frontal wall of the housing being formed by a cover or lid 4 hinged at its top margin, as at 5, for swingably exposing the interior of the housing (Figure 3). Oppositely the tubular compartment 3 of the housing 2, the cover 4 has a window 6, preferably suitably glazed, as shown in Figure 1, for the visual exposition therethrough of suitable advertising-displays or the like, as presently appearing.

Disposed for rotation in the compartment 3, for registration of successive portions of its periphery with the window 6, is a rotatable cylinder or drum 7, preferably supported on a shaft 8 journaled through the side walls of the housing 2, one end of the shaft 8 being axially presented from the housing and provided with a preferably knurled disc 9 for the manual manipulation of the drum 7.

Outstanding from the periphery of the drum 7, is a plurality of suitably spaced T-strips 10 disposed longitudinally of the drum in an annular series for the reception therebetween of advertising displays, such as posters or the like 11, as shown in Figure 1, the several displays, on rotation of the drum 7, being brought successively into registration with the window 6.

Carried by the drum 7 or its supporting shaft 8, is a latch or ratchet wheel 12 having an annular series of teeth 13 correspond-

ing in number with the number of the displays 11 on the drum 7. Slidable through the frontal wall or cover 4 of the housing 2, is a manually operable plunger 14, extending from the inner or tooth-engaging end of which is a lateral finger 15 adapted for engagement with respective pins 16 corresponding in number with the number of the teeth 13 and presented endwise from the drum 7 for rotation therewith in a circular path concentric with and to one side of, but outwardly from, the teeth 13, each latch-pin 16, however, being angularly disposed with respect to its adjacent tooth 13.

Normally, as when the plunger 14 is in outwardly presented position, as illustrated in full lines in Figure 5 and in dotted lines in Figure 6, the finger 15 lies in the annular path of the several pins 16 and through respective engagement with which prevents rotatory movement of the drum 7 in a forward direction or in the direction of the arrow shown.

However, on depression of the plunger 14 into the position thereof illustrated in full lines in Figure 6, the finger 15 is shifted inwardly of the compartment 3 out of the path of the respective pins 16, so as to freely permit forward rotatory movement of the drum 7, but as the drum 7 is so forwardly rotatorily actuated, the plunger 14 is automatically, through engagement with the respective cam-surfaces 13a disposed intermediate the several teeth 13, returned to normal outwardly presented position and its carried finger 15 replaced in movement retarding position in the annular line of travel of the pins 16. In such manner and as the plunger 14 is so actuated, the drum 7 is operable in rotary steps to successively present or exhibit the advertising-displays or the like 11 one by one in succession in registration with the window 6 for visual observation, the several teeth 13 being adapted, when the plunger 14 is in depressed position, for engagement respectively with the plunger 14 to prevent rotatory movement of the drum 7 in a retrograde or rearward direction.

For providing an incentive for turning the drum 7 and thus successively presenting for visual examination the displays 11 carried thereby, an article dispensing device is associated with, and operable by, the display device for presenting to anyone who may operate the device a reward for this effort. The latter may comprise any suitable advertising novelty or the like such as, for instance, books of matches 17 disposed in respective columns in a plurality of article-containing magazines 18 in the shell or housing 2, three such magazines being shown in the present embodiment, although there may be more or less than three such

magazines, at the option of the person constructing the device.

Preferably journaled in the base 1 in operative adjacency to the lower end of the respective magazine 18, is a shaft 19, fixed upon which is an ejector comprising preferably a corresponding plurality of arms 20 disposed in annularly staggered relation and working through respective slots 21 in the lower wall of the respective magazines 18, said wall being, in the present instance, formed by the top of the base 1, for pushing engagement with the lowermost one of the respective columns of articles 17 in the magazines 18 to deliver, on rotation of the shaft 19, said articles outwardly through suitable respective slots 22 provided in the cover 4, as illustrated in Figure 5.

For observing the contents of the magazines 18, suitable sight-slots 23 are also provided in the cover 4 in registration with the respective magazines 18, and preferably each magazine 18 has a weight 24 guidably slidable in a vertical slot 25 in the rear wall of the magazine for feeding the respective articles 17 to the respective feed-slots 22, since frequently, as in the present instance, the articles 17 to be dispensed are light in weight and would not otherwise readily feed through the respective magazines 18.

The shaft 19 is operatively connected to the shaft 8 by any suitable motion transmitting means, such, as in the present instance, a sprocket chain 26 working over sprockets 27, 28, on the respective shafts 8, 19. Thus rotation of the shaft 8 will likewise rotate the shaft 19, the ratio of the sprockets 27, 28, and the arrangement of the arms 20, being such that an article 17 will be delivered or dispensed from one of the magazines 18 each time the drum 7 is rotarily moved to bring the successive displays 11 into view through the window 6.

As best seen in Figures 5 and 6, the plunger 14 is provided with a lateral pin 29 adapted for engagement with the cover 4 to control the outward or normal position of the plunger 14 with its finger 15 in the line of travel of the pins 16.

The desire for possession of one of the articles 17 to be dispensed furnishes an incentive for the operator to manipulate the drum 7, which, in turn, presents the several displays 11 in a moving sequence, and, inasmuch as an article 17 may be obtained only by directing attention to the plunger 14 and the disc 9, which are located in immediate proximity to the window 6 through which the displays 11 are exposed to view, an attention compelling effect is produced by the conjoint operation of the whole device, which in practice has proven to be effective for the purposes intended.

It will be readily seen that any movable member carrying advertising matter may be

substituted for the rotatable member 7, so long as the advertising matter is displayed in a moving sequence, the latter effect having much more advertising value than a stationary display, that other forms of dispensing devices may be employed than that shown, and I do not wish myself limited to the gratuitous dispensing of the articles in the magazine, as, in some cases, the said articles may be valuable enough to warrant the payment of a fee for the possession thereof, and that other changes and modifications in the form, construction, arrangement, and combination of the several parts of the device may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A combined advertising and dispensing device comprising, in combination, a shell having a window, a shaft mounted for rotation on the shell, a drum disposed on the shaft for rotation within the shell, a plurality of advertising-displays disposed in an annular series upon the periphery of the drum, and means including an actuating member on the shaft and a retarding member shiftable through the shell for effecting step by step rotatory actuation of the drum for exhibiting said displays one by one in succession through said window.

2. A combined advertising and dispensing device comprising, in combination, a shell having a window, a drum mounted for rotation within the shell, a plurality of advertising-displays disposed in an annular series upon the periphery of the drum, and means for effecting step by step rotatory actuation of the drum for exhibiting said displays one by one in succession through said window, said means including a shiftable plunger, and an annular series of pins and teeth on the drum adapted in succession for alternate engagement by the plunger.

3. A combined advertising and dispensing device comprising, in combination, a shell having a window, a drum mounted for rotation within the shell, a plurality of advertising-displays disposed in an annular series upon the periphery of the drum, and means for effecting step by step rotatory actuation of the drum for exhibiting said displays one by one in succession through said window, said means including a shiftable plunger, an annular series of teeth upon the drum adapted for successive engagement by the plunger to prevent retrograde movement of the drum, and an annular series of pins angularly disposed upon the drum relatively to the teeth adapted for successive engagement by the plunger to prevent forward movement of the drum.

4. A combined advertising and dispensing

device comprising, in combination, a shell having a window, a drum mounted for rotation within the shell, a plurality of advertising displays disposed in an annular series upon the periphery of the drum, and means for effecting step by step rotatory actuation of the drum for exhibiting said displays one by one in succession through said window, said means including a shiftable plunger, an annular series of pins upon the drum adapted for successive engagement by the plunger, when the same is in one position, to prevent forward movement of the drum, an annular series of teeth upon the drum angularly disposed relatively to the pins adapted for successive engagement by the plunger, when the same is in another position and in alternation with the pins, to prevent retrograde movement of the drum, and a series of cams on the drum adapted on actuation of the drum when the plunger is in its last position for successive engagement with the plunger to return the same to its first position.

5. A combined advertising and dispensing device including, in combination, a shell having a window, a drum mounted for rotation in the shell oppositely of said window, a series of advertising displays on the drum adapted on rotation of the drum for successive exhibition at said window, means for rotatably actuating the drum, a latch-wheel rotatable with the drum, said wheel having a plurality of teeth corresponding in number with the number of displays on the drum, a plunger shiftable on the shell for successively engaging the respective teeth on rotation of the drum to prevent retrograde movement thereof, a plurality of latch pins mounted on the drum in angular relation to the respective teeth of the latch wheel, said plunger being shiftable inwardly of the shell for disengagement from the respective pin to permit partial rotation of the drum in a forward direction, and an annular series of cam-members on the drum for successively returning the plunger from tooth engaging to pin engaging position, said plunger as the same is successively shifted by said cams thereafter engaging the next adjacent pin on completion of an angular rotation of the drum corresponding to the registration of the next advertising display in the series with said window.

6. A combined advertising and dispensing device comprising, in combination, a shell having a window, a drum mounted for rotation within the shell, a plurality of advertising-displays disposed in an annular series upon the periphery of the drum, and means for effecting step by step rotatory actuation of the drum for exhibiting said displays one by one in succession through said window, said means including a manually actuatable drum-rotating disc, a ratchet wheel on the drum, an annular series of spaced pins on the drum,

and a shiftable plunger engageable with said wheel and with said pins.

7. A combined advertising and dispensing device comprising, in combination, a shell having a window, an advertising-displaying drum mounted for rotary movement in the shell for visual display of its carried advertising at said window, means for effecting rotary actuation of the drum, and means including an ejector associated with, and automatically actuatable on actuation of, the drum for simultaneously propelling the housed articles from the shell.

8. A combined advertising and dispensing device comprising, in combination, a shell having a window, an advertising-displaying drum mounted for rotary movement in the shell for visual display of its carried advertising at said window, means for effecting step-by-step rotary actuation of the drum, and means including a rotary ejector automatically actuatable on actuation of, and in timed relation with, the drum for simultaneously propelling a housed article from the shell.

9. A combined advertising and dispensing device comprising, in combination, a shell for housing a column of articles and having a window, an advertising-displaying drum mounted for rotary movement in the shell for visual display of its carried advertising at said window, means for effecting step-by-step rotary actuation of the drum, an ejector mounted for rotary movement in the shell under the housed column of articles, and means for effecting rotary actuation of the ejector in timed relation with actuations of the drum for successively propelling the housed articles from the shell.

10. A combined advertising and dispensing device comprising, in combination, a shell for housing a column of articles and having a window, an advertising-displaying drum mounted for rotary movement in the shell for visual display of its carried advertising at said window, means for effecting step-by-step rotary actuation of the drum, an ejector including a series of radially extending spaced arms mounted for rotary movement in the shell under the housed column of articles, and means flexibly connecting the drum and ejector for effecting rotary actuation of the ejector in timed relation with actuation of the drum for successively propelling the housed articles from the shell.

In testimony whereof, I have signed my name to this specification.

BORIS BOGOSLOWSKY.