No. 616,508. Patented Dec. 27, 1898.

E. VEDDER.

ADVERTISING DEVICE.

(Application filed Aug. 7, 1897.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1.



Fig. 2.

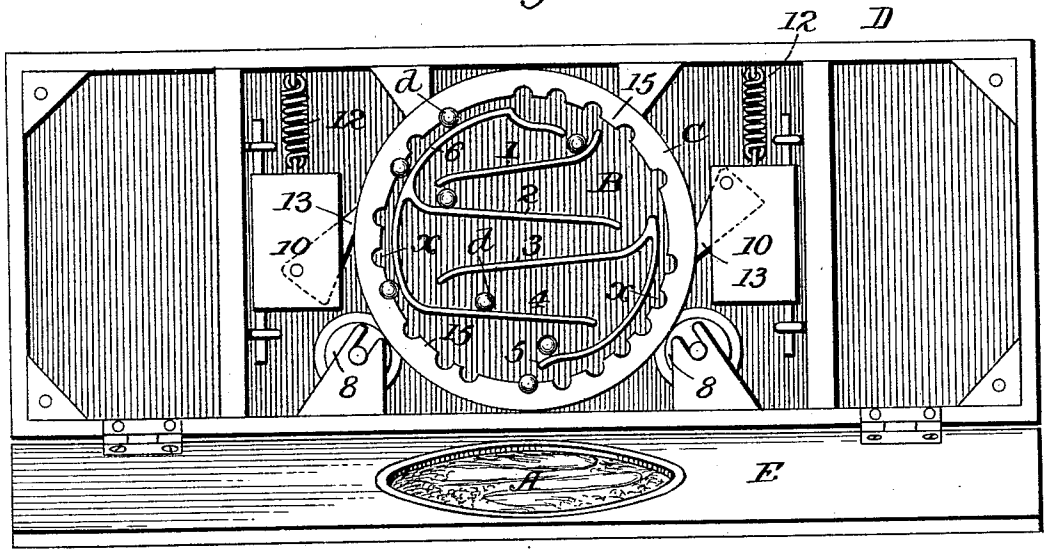
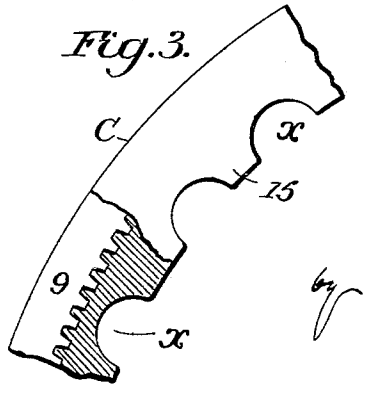


Fig. 3.



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Fig. 4.

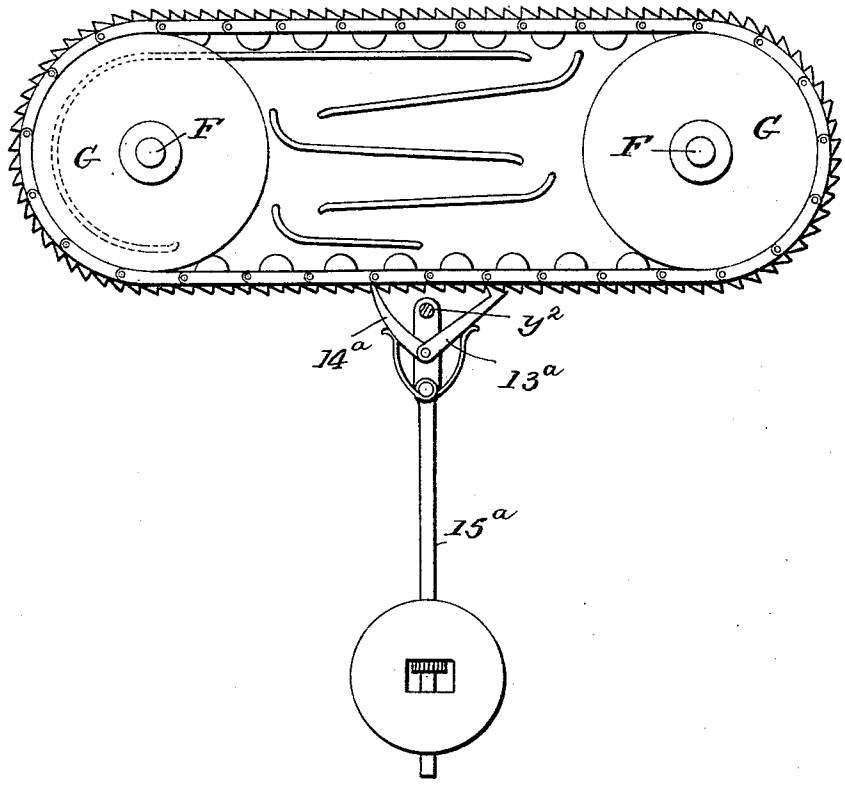
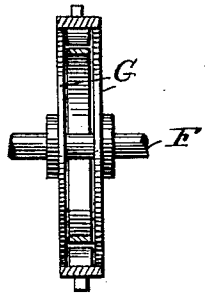


Fig. 5.



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UNITED STATES PATENT OFFICE.

ELIHU VEDDER, OF ROME, ITALY.

ADVERTISING DEVICE.

SPECIFICATION forming part of Letters Patent No. 616,508, dated December 27, 1898.

Application filed August 7, 1897. Serial No. 647,469. (No model.)

To all whom it may concern:

Be it known that I, ELIHU VEDDER, a citizen of the United States, residing at Rome, Italy, have invented certain new and useful Improvements in Devices for Advertising and other Purposes, of which the following is a specification.

My invention relates to a device which is primarily intended for use for advertising, but which may be employed as a game or for amusement, or in any other suitable manner, and which consists of a series of inclines, of a series of "travelers" adapted to travel thereon, a plate which conceals the inclines without concealing the path of the travelers, and a carrier and means for imparting movement to the same to convey the travelers from the lower incline to the upper one, the invention further consisting of means by which any suitable travelers or loose parts may be put into circulation by means of movable parts put into motion by the jarring of a vehicle, as fully set forth hereinafter and as illustrated in the accompanying drawings, in which—

Figure 1 is an external view of my device as arranged in a panel for advertising purposes. Fig. 2 shows the device with the cover open, so as to expose the internal construction. Fig. 3 is an enlarged view of part of the carrier. Fig. 4 is a side view illustrating a modification, and Fig. 5 is an end view of Fig. 4.

The said device, as illustrated in the drawings, consists, essentially, of a series of inclines formed in any suitable manner to permit the progressive movement of a ball or other suitable object and a carrier which takes each ball as it passes from the lowest incline and carries it to a position above the highest incline and deposits it thereon, and in connection with these features I make use of a front piece, which may be of painted glass or other suitable material, which covers or hides the inclines, so that the movements of the balls may be seen without disclosing the ways upon which they rest. These features may be embodied in various different constructions. As shown in the drawings, there is a series of inclined rails or ribs 1 2 3 4 5, secured upon the face of a suitable backing-piece B, and in Figs. 1, 2, and 3 the carrier C consists of a ring having upon its inside a series of pockets *x* and intermediate projections 15, which ring incloses the space occupied by the inclines, and in front of the ring and of the inclines is a glass plate A, upon which is painted a landscape or other suitable matter, so as to completely hide the inclines themselves, while leaving a space or zigzag path unobscured above the upper edges of the incline.

As shown, there is a series of different-colored balls *d*, adapted to enter the recesses *x* inside of the carrier C. As the carrier C is turned in any suitable manner it carries the balls upward, and a guard 6 is so arranged that the balls are kept in their recesses until one of the balls is directly above the incline 1, when the same will pass from the end of the guard and then onto the highest point of the incline 1, and then along the latter to the incline 2, and along the latter to the incline 3, and so on until it drops from the end of the incline 5 in the opposite pocket in the carrier. Preferably the pockets are placed at different distances apart, so that at times two or three or more balls may be placed in the pockets in succession, and at other times they will be separated to a considerable extent, so that there will be no uniformity in the discharge of the balls onto the incline 1, the irregular appearance of the balls of different colors tending to attract attention. It will also be evident that sometimes a ball in being discharged will run forward into a pocket, or at other times as the carrier turns it may be thrown back of a ball which was delivered at a later time, thus further increasing the irregularity of the display of the different colors.

The carrier C may be mounted and operated in different ways. As shown, the structure is adapted to be inserted in one of the panels of a street-car or vehicle of any kind, and consists of a box D, having a cover E, with side spaces for advertising matter. In the box D are rollers 8 8, upon which rests the ring carrier C, and the latter is provided exteriorly with a series of teeth constituting a rack 9. On suitable guides within the box slide weights 10 10, each of which is suspended by a spring 12 from the top of the box and carries a pawl 13, which is so weighted that its edge will constantly engage the rack 9 of the ring carrier. As the vehicle is jolted the

weights or motors 10 will move up and down under the impulses of the vehicle, sometimes to a greater extent and sometimes to a less extent, and as a result the carrier C will be fed around intermittently and irregularly at different speeds, thereby further increasing the irregular appearance of the balls opposite the plate A. As shown, the latter is inserted in an opening in the lid E of the box, which when the apparatus is in use is turned up to the position shown in Fig. 1.

Although I have shown a ring carrier, the carrier may be of a very different construction and at the same time accomplish all the purposes of my invention. Thus, as shown in Fig. 4, the carrier may be in the form of a chain passing around disks G G upon shafts F F with an external ratchet, with which engage pawls 13^a 14^a, pivoted to a pendulum 15^a, which is suspended from a point y^2 and the vibration of which carries the pawls and with them the chain carrier.

The plate A may be of glass, celluloid, or a fine woven fabric, or it may be a plate of metal cut away so as to expose only the path along which the balls or other objects pass.

While balls will answer the purpose in many instances other kinds of traveling objects or loose particles, which I term "travelers," may be employed—as, for instance, blocks representing sleds, with inclines suitably arranged to direct them along their path.

It will of course be evident that a positive motor, as an electric motor or a spring-motor, may be employed when required instead of movable motors moved by the jarring of the vehicle.

Without limiting myself to the precise construction and arrangement of parts shown, I claim as my invention—

1. The combination with a guard-plate A, of a series of inclines arranged so as to be concealed by said plate, and a series of travelers, a carrier, and means for operating the same whereby the travelers are received from the lower incline and carried above and delivered onto the upper incline, substantially as set forth.

2. The combination of the plate A and series of inclines at the rear of said plate, a series of travelers, and a carrier arranged to move round the inclines, and a weight suspended so as to vibrate under the influence of the jars of the vehicle in which the device is placed, and means whereby the movement of the weight is imparted to the carrier, substantially as set forth.

3. The combination of the series of inclines and plate A, and a carrier having a series of pockets irregularly spaced, and travelers for traveling upon said inclines, and adapted to said pockets, and means for moving the carrier, substantially as set forth.

4. The combination of the series of travelers, series of inclines, plate A and circular carrier C provided with pockets x arranged to lift the travelers from the bottom to the top incline, and suspended weights 10 provided with pawls and a rack at the outside of the carrier engaged by said pawls, substantially as set forth.

5. The combination with a case D having a cover E, of an opening in the cover, a plate A extending across said opening, a series of inclines supported behind said plate within the box D, and travelers adapted thereto, a carrier C having pockets or recesses x, and means for operating the carrier, substantially as described.

6. In an advertising device, the combination of a movable motor adapted to be reciprocated by the jarring of a vehicle, a series of loose travelers or particles, guides for the travelers, and means whereby the said travelers are deposited at irregular intervals upon the guides by the action of the motor, substantially as described.

7. In an advertising device, the combination of a motor adapted to be actuated by the movement of a vehicle, one or more loose travelers or particles, a vertically-arranged tortuous guide upon which the travelers are adapted to move by gravity, a plate adapted to conceal the guide provided with an opening through which the moving travelers may be observed, and a carrier actuated from the motor for elevating the travelers and depositing them upon the upper end of the guide, substantially as described.

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

ELIHU VEDDER.

Witnesses:
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ROBERT B. HANDLEY,