

J. M. DANNHEISER.
 DISPLAY DEVICE.
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1,016,677.

Patented Feb. 6, 1912.

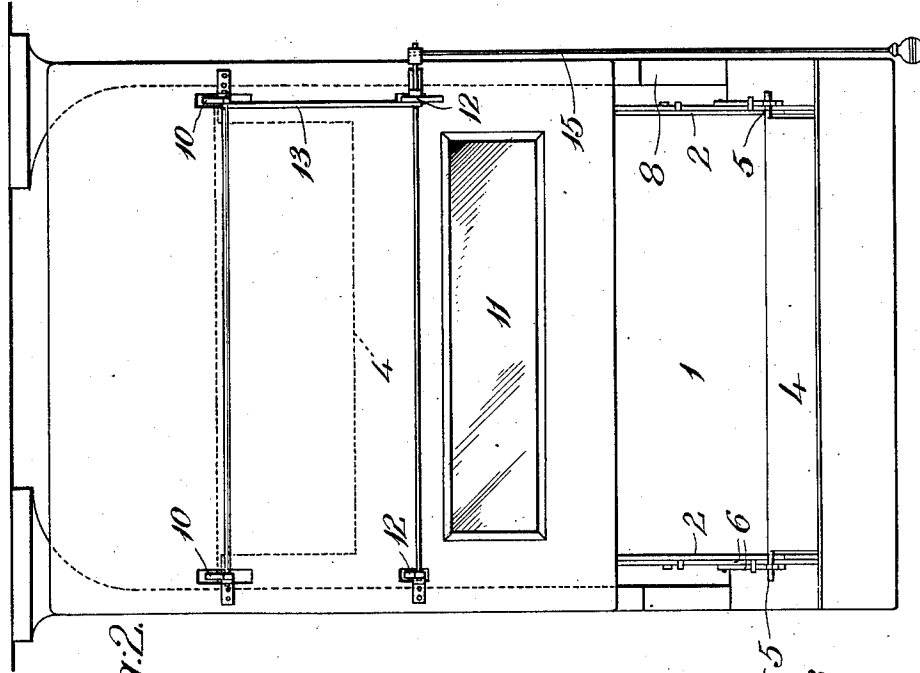


Fig. 2.

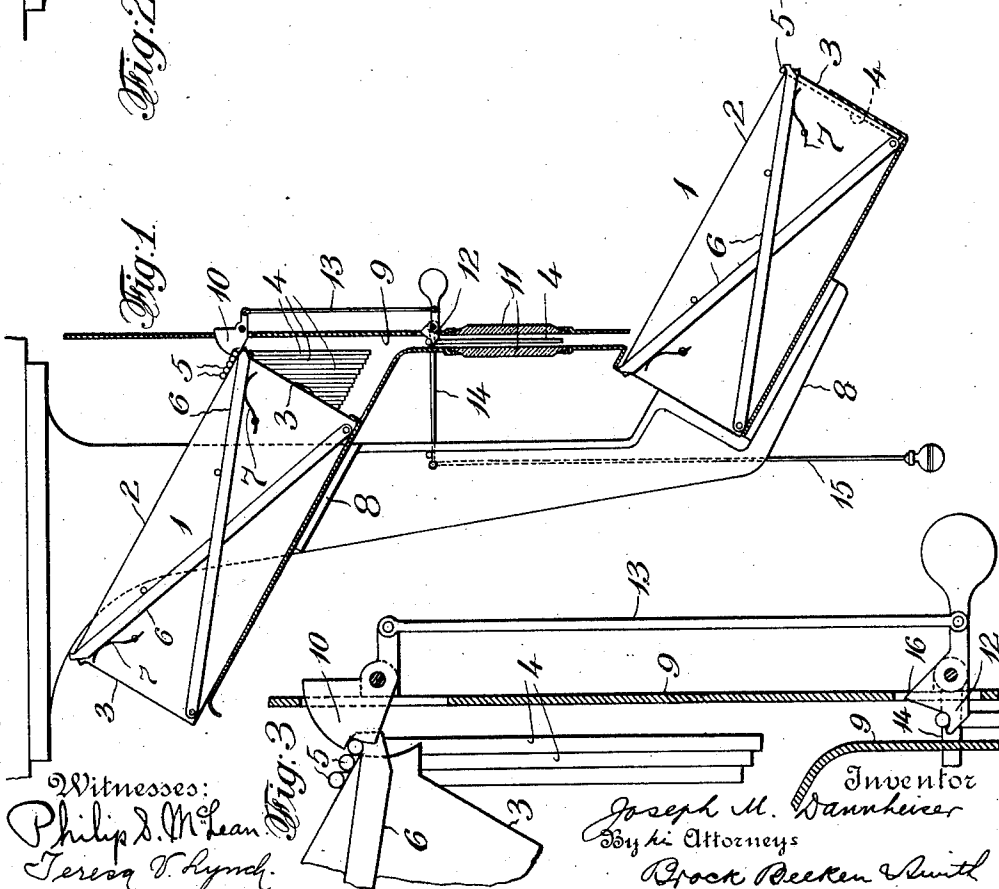


Fig. 1.

Fig. 3.

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DISPLAY DEVICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOSEPH M. DANNHEISER, a citizen of the United States, and a resident of the borough of Manhattan, in the county of New York, city and State of New York, have invented certain new and useful Improvements in Display Devices, of which the following is a specification.

The object of the present invention is to provide a changeable display device of a simple and reliable construction.

The invention may be applied to a great variety of uses such as for the display of changeable signs, for annunciators for railroad stations or cars, for price announcements, for feeding lantern slides or other pictures, for calendars, &c.

The invention consists in a gravity feed system of handling display devices, and of such other features as will more fully hereinafter appear.

In the accompanying drawings the invention is disclosed in a concrete and preferred form, constituting one example of the invention.

In the said drawings: Figure 1 is a side elevation of a device embodying the invention. Fig. 2 is a view looking in the direction of the arrow 2 of Fig. 1. Fig. 3 is a detail of the releasing device and display support.

Similar characters of reference indicate corresponding parts in the several views.

1 indicates a magazine provided in the present instance with side supports 2 and an open end 3.

4 are the display devices provided here with transversely extending supports 5 which rest on the side supports 2. A latch 6 is provided which acts on the outermost display device to prevent its exit from the open end of the magazine. The latch is here shown as a lever normally held up by the spring 7. In order to make the magazine reversible, both ends are open and two latches are provided as shown. This magazine is supported here in an inclined position on the bracket 8. Adjacent to this bracket is a guide 9 through which the display devices are adapted to be bodily dropped. Arranged in connection with the guide is a releasing device 10 which, when actuated, depresses the latch and permits a display device to move out of the magazine. The guide 9 is provided with openings or windows 11 for exhibition purposes and has a

display support 12 on which the display devices drop from the magazine and which acts to arrest the said display devices and causes them to be exhibited.

The releasing device 10 and display support 12 are here shown as pivoted members connected by the rod 13. Suitable means are provided for operating the members 10 and 12, here shown, for convenience, as a weighted lever 14 and cord 15. The members 10 and 12 are so timed that when the cord is pulled, the support 12 releases the display device carried by it before another display device is released by the magazine. The member 12 is provided with an auxiliary support 16 which comes into position and arrests the display device released from the magazine. When the cord is released the display device is moved from the support 16 to the support 12. The display device on the support 12 may drop into a lower magazine of the same construction as the upper magazine. These magazines are preferably removable and interchangeable.

What is claimed, is:

1. In a system of exhibiting display devices, a guide, means for supporting and exhibiting a display device in said guide, a releasing device associated with said guide, a removable magazine containing display devices, a latch on said magazine adapted to normally prevent the display devices from moving out thereof, which when the magazine is properly positioned becomes operatively associated with the releasing device, and means for operating the releasing device whereby the display devices are caused to move out of the magazine onto the supporting device.

2. In a system of exhibiting display devices, a guide, means for supporting and exhibiting a display device in said guide, a releasing device associated with said guide, a removable, double ended and reversible magazine containing display devices, oppositely disposed latches on said magazine adapted to normally prevent the display devices from moving out of either end thereof, a bracket on which the magazine can be supported with either end adjacent to the releasing device, and whereby when the magazine is so supported the latch on that end of the magazine which is adjacent to the releasing device becomes operatively associated therewith, and means for operating the releasing device whereby the display de-

vices are caused to move out of the magazine onto the supporting device.

3. In a system of exhibiting display devices, interchangeable upper and lower open ended magazines, display devices in said upper magazine, a guide interposed between the two magazines, means for supporting and exhibiting a display device in said guide, a releasing device associated with said guide, a latch on the upper magazine adapted to normally prevent the display devices from moving out thereof, which, when the upper magazine is properly positioned, becomes operatively associated with the releasing means on the guide, and means for operating the releasing device and the supporting means, whereby the display devices are caused to drop bodily from the upper magazine to the supporting device and from the latter to the lower magazine.

4. In a system of exhibiting display devices, interchangeable upper and lower

magazines, display devices in said upper magazine, a guide interposed between the two magazines, means for supporting and exhibiting a display device in said guide, a releasing device associated with said guide, latches on said magazine adapted to normally prevent display devices from moving out thereof, whereby when either magazine is properly positioned with respect to the releasing devices, the latch of such magazine becomes operatively associated with the releasing device of the guide, and means for operating the releasing device to cause the display devices to move bodily from the upper magazine to the supporting device.

Signed at New York city in the county of New York and State of New York this 12th day of January A. D. 1911.

JOSEPH M. DANNHEISER.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."