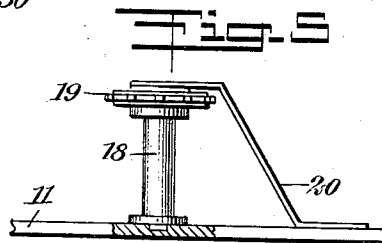
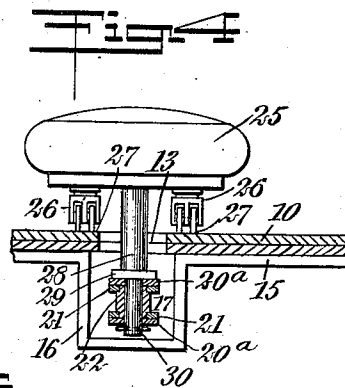
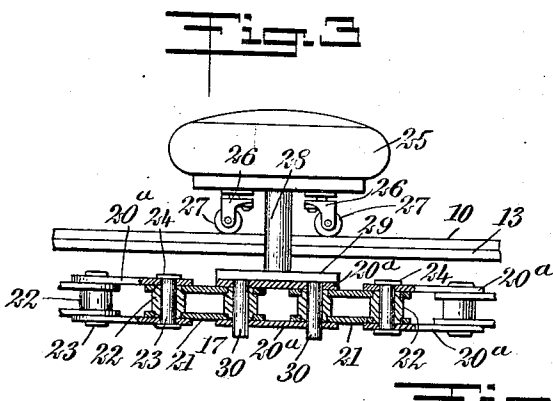
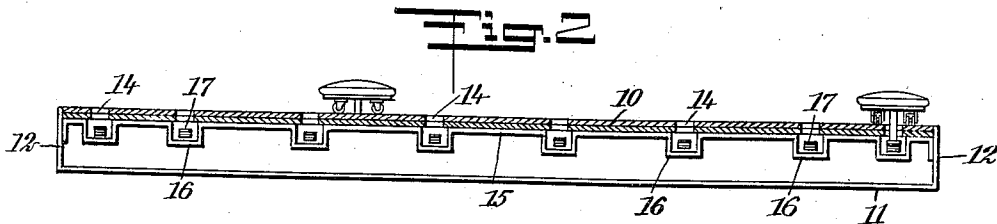
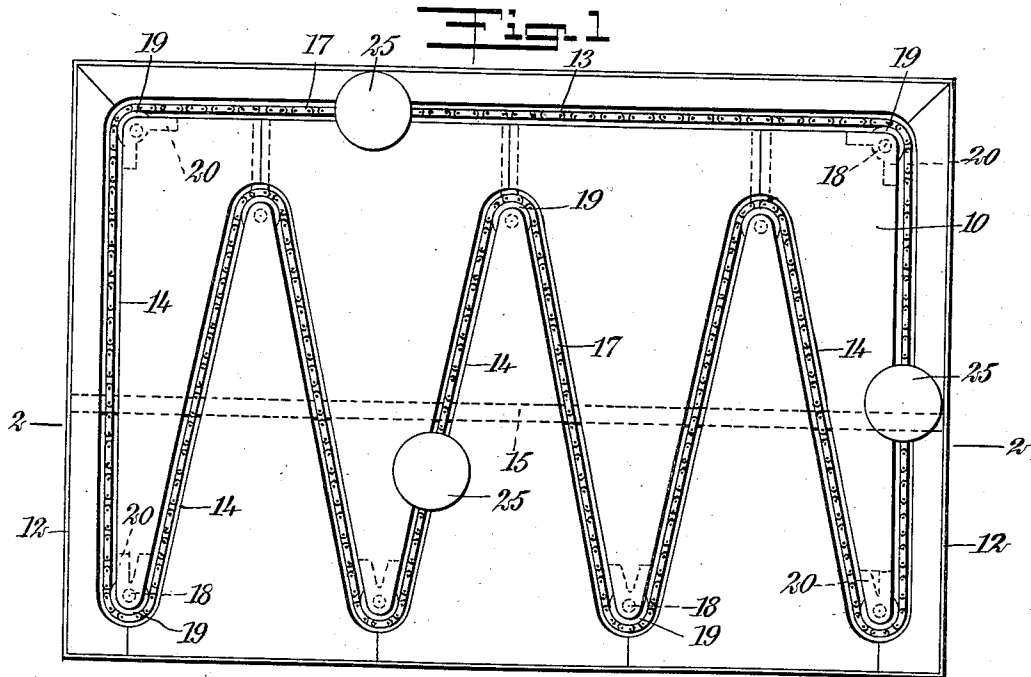


E. F. CANNON.  
 DISPLAY APPARATUS.  
 APPLICATION FILED MAY 18, 1908.

958,475.

Patented May 17, 1910.



WITNESSES  
*F. D. Sweet*  
*John K. Brachvogel*

INVENTOR  
*Edward F. Cannon*  
 BY *Wm. Lee*  
 ATTORNEYS

# UNITED STATES PATENT OFFICE.

EDWARD F. CANNON, OF PORTLAND, OREGON.

## DISPLAY APPARATUS.

958,475.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed May 18, 1908. Serial No. 433,358.

*To all whom it may concern:*

Be it known that I, EDWARD F. CANNON, a citizen of the United States, and a resident of Portland, in the county of Multnomah and State of Oregon, have invented a new and Improved Display Apparatus, of which the following is a full, clear, and exact description.

This invention relates to display apparatus, and more particularly to apparatus used, for example, for displaying wares or goods in stores, shop windows and the like. More specifically, the invention relates to a display apparatus including a flexible member arranged to travel, and having runs movable in different directions, a floor over the flexible member and concealing the same normally from observation, the floor having slots which coincide with the runs of the flexible member and being adapted to support carriages for holding the goods to be displayed, the carriages being operatively connected through the slots, with the flexible traveling member.

The object of the invention is to provide a simple, inexpensive and efficient display apparatus for exhibiting goods or wares, in which the goods are arranged upon carriages which travel successively and continuously in a plurality of directions and thus show the goods to the best advantage and from different sides, and in which the carriages are movably supported upon the floor, which, at the same time, serves to conceal the mechanism for actuating the carriages.

The invention consists in the construction and combination of parts to be more fully described hereinafter and particularly set forth in the claim.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 is a plan view of one form of my display apparatus; Fig. 2 is a longitudinal section on the line 2—2 of Fig. 1; Fig. 3 is an enlarged, partial, longitudinal section of the traveling member, showing a carriage in side elevation; Fig. 4 is an enlarged, transverse section showing a traveling member, and a carriage, the latter supported upon the floor; and Fig. 5 is an enlarged side elevation showing a sprocket for

controlling the movement of the traveling member.

Before proceeding to a more detailed explanation of my invention, it should be clearly understood that while the same is particularly useful in connection with stores, shop windows and the like, it can also be advantageously employed for other purposes where it is desired to display or exhibit articles, or in which it is necessary to cause articles to move continuously and successively in predetermined directions. I have shown, for example, carriages of certain form, but I wish to emphasize that the construction of these carriages can be varied to suit individual preference or to allow for different kinds and sizes of articles to be supported upon the carriages. The traveling member which controls the carriages may be actuated in any suitable manner to cause it to travel continuously, or interruptedly, in the same or in opposite directions.

Referring more particularly to the drawings, I provide a floor 10 which may be fashioned as is shown, for example, in the drawings, from superimposed layers of wood, metal or the like. A base 11 having upwardly disposed sides 12 carries the floor between the latter and spaced from the base. The base may consist of the floor of a shop window, or of a store, or may be formed so that it is removable together with the floor 10 and rigid therewith. A continuous slot 13 is formed in the floor 10 and may be arranged in any desired manner, as shown for example, with a plurality of oppositely disposed runs 14. The slot constitutes the track which directs the travel of the carriages which are used for displaying the goods, and the form and arrangement of the slot can be varied in any desired manner. In the form of my invention shown herewith, I employ a transverse strengthening bar 15 having offset channel-shaped portions 16 where it crosses the various runs of the slot, for a purpose which will appear more clearly hereinafter. A flexible member 17 consisting preferably of a chain as shown herewith, is positioned under the floor 10 and conforms to the arrangement of the slot 13. Posts 18 are pivotally mounted underneath the floor, and have sprockets 19. The posts are arranged at the curves or return bends of the slot and are held in posi-

tion by means of suitable braces 20. The sprockets 19 engage the chain 17 and carry and direct the same. The offset channel-shaped portions 16 of the member 15 are for the purpose of permitting the chain to travel therethrough.

I prefer to fashion the flexible member or chain from links 20<sup>a</sup> and 21 arranged in pairs, as is shown most clearly in Fig. 3. The links 21 at the ends, have openings which receive pivot sleeves 22. Pivot pins 23 are arranged within the sleeves 22 and are received at the extremities by suitable openings of the links 20<sup>a</sup>, whereby the links 20<sup>a</sup>, and 21 are pivotally connected. At the ends, the pins have enlarged heads to hold them in position.

Carriages 25 which may be of any suitable form, are arranged upon the floor 10, and have pivoted brackets or casters 26 provided with supporting wheels 27 for carrying them upon the floor. Stems 28 extend through the slot 13 and are rigidly secured to the carriages. At the end, underneath the floor, each stem has a plate 29 provided with down-

wardly extending pins 30; these take the place of the pins 23 at one of the links of the chain and are inserted in the corresponding sleeves 22. In this way the carriages are operatively connected with the chain and are caused to travel as the latter is actuated.

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

A display apparatus, comprising a slotted support, a chain traveling below the slots of the support, alternate links of the chain being provided with pivot sleeves to receive the pivot pins connecting the links, and a carriage provided with a stem projecting through the said slot and carrying a plate to which a pair of the pivot pins of the chain are secured.

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

EDWARD F. CANNON.

Witnesses:

JOHN K. BRACHVOGEL,  
EVERARD B. MARSHALL.