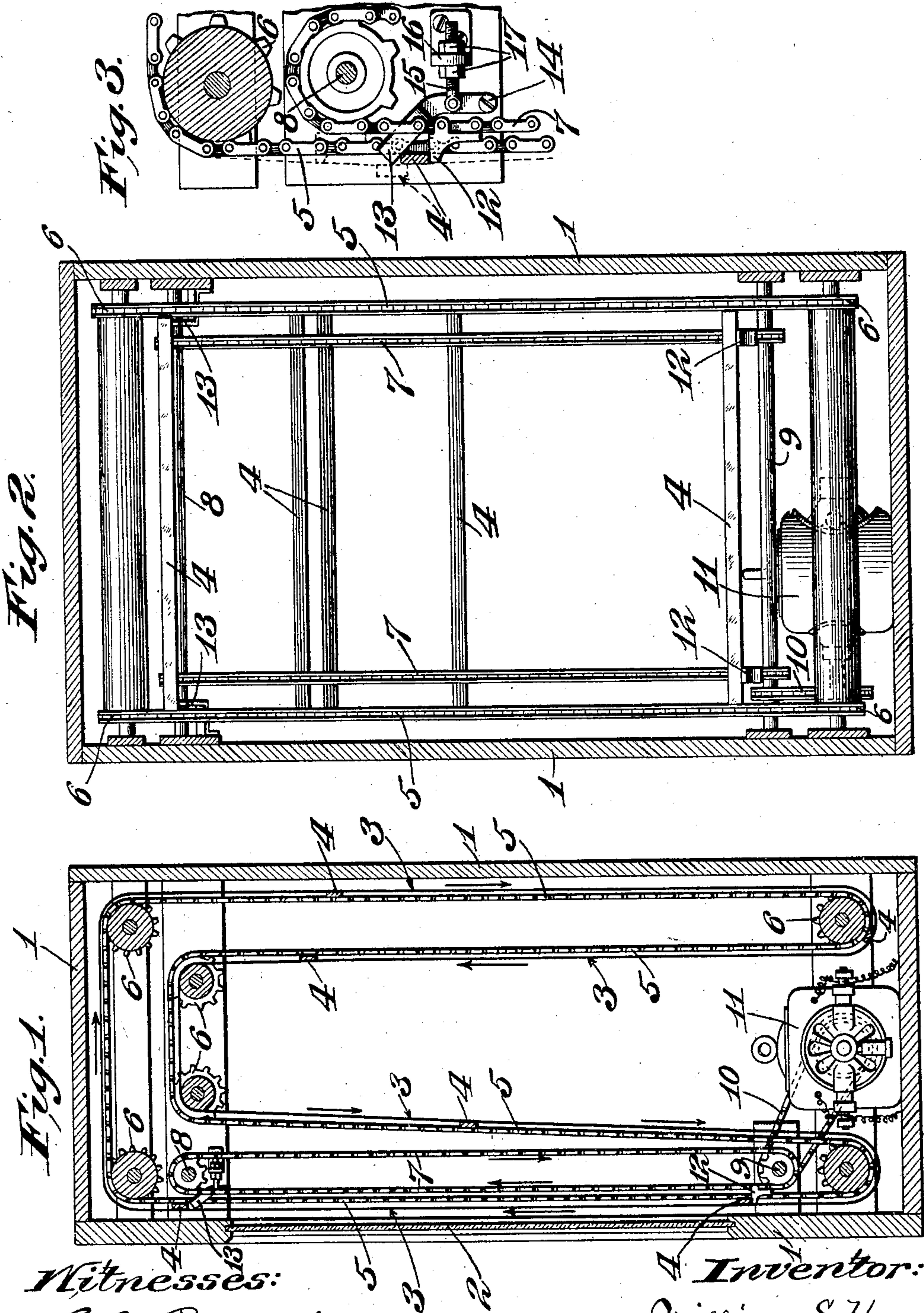


No. 862,820.

PATENTED AUG. 6, 1907.

W. S. HAYNES.
ADVERTISING DEVICE.
APPLICATION FILED JAN. 18, 1906.



Witnesses:

G. A. Pennington
J. B. Megown.

Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM S. HAYNES, OF ST. LOUIS, MISSOURI.

ADVERTISING DEVICE.

No. 862,820.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed January 18, 1906. Serial No. 296,617.

To all whom it may concern:

Be it known that I, WILLIAM S. HAYNES, a citizen of the United States, and a resident of the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Advertising Devices, of which the following is a specification.

My invention relates to advertising devices, the object being to produce a simple and efficient mechanism whereby the sign carrier can be intermittently driven.

My invention consists in the parts and in the arrangement and combinations of parts hereinafter described and claimed.

In the accompanying drawing, which forms part of this specification, and wherein like symbols refer to like parts wherever they occur, Figure 1 is a longitudinal section through my device; Fig. 2 is a cross-sectional view with the sign bearing web or curtain removed; Fig. 3 is a detail view illustrating the action of the deflecting arm or tripper.

A casing 1 has a window or opening 2 at its front in order to display the sign-bearing web 3. This web constitutes an endless curtain and is fastened to the cross-bars 4 which are secured at regular distances to parallel endless chains 5 passing over the sprockets 6 at each side of the casing at the top and bottom thereof. The endless curtain 3 is shown in the drawing as being spaced from the two uppermost rollers to avoid confusion of lines, but it is obvious that the curtain will touch the rollers at the turns and be drawn nearly taut therebetween. In like manner, the endless curtain 3 is shown in the drawing as being spaced from the lowermost rollers in order to avoid confusion of lines.

To the rear and in close proximity to that portion of the curtain which is adjacent to the display opening, is located the curtain-driving or elevating mechanism comprising a pair of endless chains 7 passing over sprockets on shafts 8 and 9 located near the top and bottom respectively of the casing.

On a shaft 9, which is the driving shaft, is fixed a sprocket or pulley over which passes a chain or belt 10 connecting said shaft with a suitable motor 11.

Arranged upon the driving or elevating chains 7 are lugs 12 which project from their respective chains in the same plane, and are adapted to engage any curtain-supporting bar 4 which may be in their path. A bar thus engaged will be carried upwardly causing the curtain to move in the direction indicated by the arrows until the bar strikes the deflecting arms or trippers 13 mounted on the sides of the casing and projecting across the path of said bar which will move the bar forwardly far enough to disengage it from the lugs or projections 12. The curtain will then stand at rest until the lugs have completed their circuit, when the lowermost bar will be engaged and the curtain again moved to display a different sign.

It is, of course, to be understood that the bars are so

spaced apart that at the time a bar is deflected from the lugs at the top of the machine another bar is moved into a position at the bottom where it will be engaged by the lugs upon the completion of their circuit. Thus an intermittent or step-by-step movement is imparted to the sign-bearing curtain, while the driving mechanism is permitted a continuous or uninterrupted movement.

As more clearly shown in Fig. 3 of the drawings, provision is made for the adjustment of the deflecting arm or tripper to compensate for wear or undue slack in the "carrier" or "driving" chains. This is accomplished by pivoting the deflecting arm, as at 14, and connecting it by a hinged threaded rod 15 to a bracket 16, suitable locking nuts 17 being provided, whereby, the arm is positively held in its adjusted position.

Obviously, my device admits of considerable modification within the scope of my invention as defined by the appended claims and therefore I do not wish to be limited to the specific construction shown and described. For instance, belts and chains are obviously interchangeable.

What I claim as my invention and desire to secure by Letters Patent is:

1. In an advertising device, a movable sign-carrier comprising an endless curtain, a constantly-moving driving mechanism comprising an endless chain, a projection on said driving mechanism adapted to engage said sign-carrier, and a deflector for disengaging said sign-carrier from said projection, substantially as described.

2. In an advertising device, a movable sign-carrier comprising an endless curtain, a constantly-moving driving mechanism comprising an endless chain, a projection on said driving mechanism adapted to engage said sign-carrier, and an adjustable deflector for disengaging said sign-carrier from said projection, substantially as described.

3. In an advertising device, a movable sign-carrier comprising parallel endless chains, cross-bars connecting said chains, and an endless curtain fastened to said bars, a constantly-moving driving mechanism comprising parallel chains provided with lugs arranged in the same plane and adapted to engage the cross-bars in said sign-carrier, and a deflecting arm in the path of said cross-bars and adapted to disengage them from said lugs, substantially as described.

4. In an advertising device, a movable sign-carrier comprising parallel endless chains, cross-bars connecting said chains, and an endless curtain fastened to said cross-bars, a constantly-moving driving mechanism comprising parallel chains provided with lugs arranged in the same plane and adapted to engage the cross-bars in said sign-carrier, a deflecting arm in the path of said cross-bars and adapted to disengage them from said lugs, and means for adjusting said deflecting arm relative to the path of said cross-bars, substantially as described.

In witness whereof, I have signed my name to this specification in the presence of two subscribing witnesses, at the city of St. Louis, Missouri, this 15th day of January, 1906.

WILLIAM S. HAYNES.

Witnesses:

J. B. MEGOWN,
JOHN F. WIXFORD.