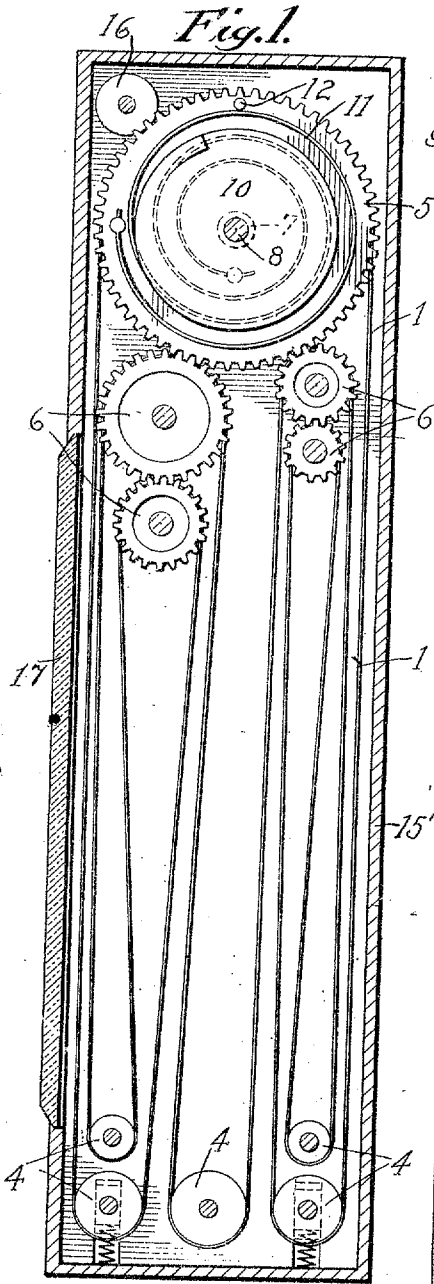
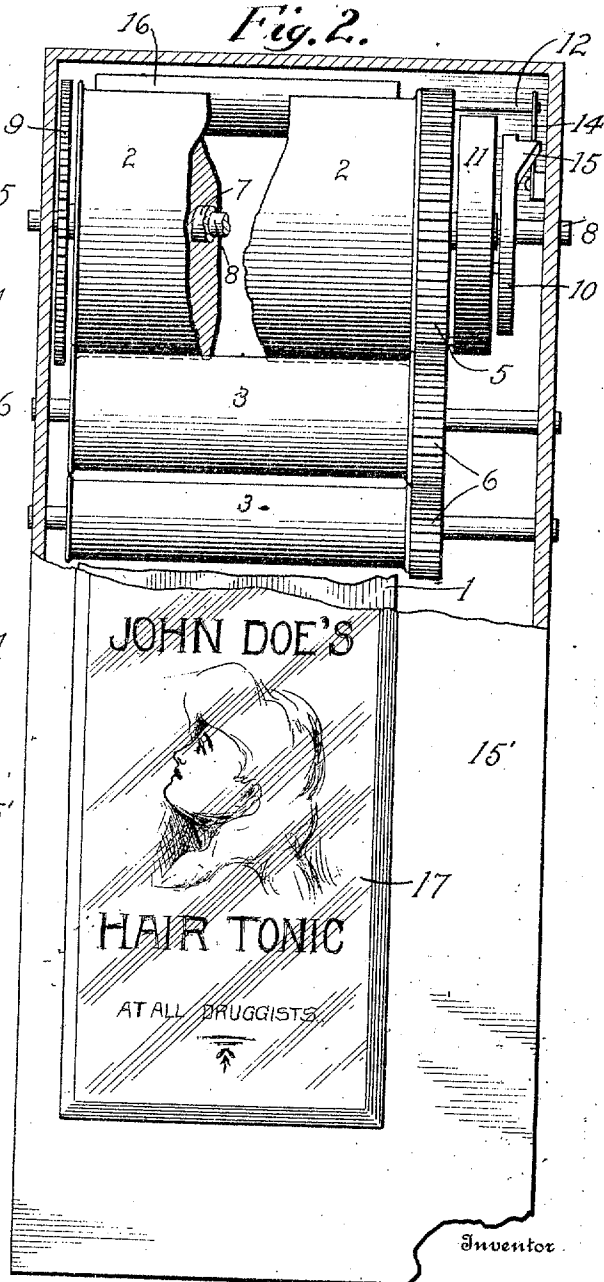


No. 884,575.

PATENTED APR. 14, 1908.

J. C. FOX.
DISPLAY APPARATUS.
APPLICATION FILED DEC. 4, 1906.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH C. FOX, OF SEATTLE, WASHINGTON.

DISPLAY APPARATUS.

No. 884,575.

Specification of Letters Patent.

Patented April 14, 1908.

Application filed December 4, 1906. Serial No. 346,336.

To all whom it may concern:

Be it known that I, JOSEPH C. FOX, a citizen of the United States of America, and a resident of the city of Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Display Apparatus, of which the following is a specification.

The primary object of my invention is the provision of an improved apparatus of the above type in which the matter for display for advertising or other purposes can be moved so that the different names, advertisements or the like can be brought successively to and from a displaying position.

A further object is to provide improved mechanisms whereby the apron will be operated in an intermittent manner automatically.

With the above and other objects in view to be referred to as the description progresses, the invention consists of the construction, arrangement and combinations of parts hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawing in which like numerals of reference indicate like parts throughout: Figure 1 is a view in vertical section, and Fig. 2 is a fragmentary view in front elevation of the invention, the apron being removed from the upper rollers.

Reference numeral 1 indicates the apron which can be of any desired length, the same passing over a drive roller 2, driven rollers 3 and suitable idler rollers 4, one or more of the latter of which may have slidable bearings connected to suitable tension devices, as shown, which will act automatically to take up any slack in the apron. Roller 2 in the present showing, is provided with a gear 5 which is in mesh with one gear of each train of gears 6, which gears 6 are secured on the shafts of rollers 3, the connection between said gear 5 and roller 2 being in the form of a hollow shaft 7 which extends through said roller and secured to move therewith. A drive shaft 8 projects through hollow shaft 7 and is provided on one end with a gear 9 to which power is applied from a motor or the like (not shown), and on the other end portion of this shaft is a fixed member 10.

11 indicates a coil spring having its ends secured to gear 5 and member 10 respectively.

Reference numeral 12 indicates a pin on gear 5 which normally engages a stop 14, in

the form of a spring leaf, fixed at one end to the casing 15, whereby roller 2 and gear 5 will be prevented from turning during winding of spring 11.

In operation, shaft 8 is rotated continuously and member 10 rotating therewith and having one end of spring 11 secured thereto winds said spring until a cam 15 on said member engages stop 14 and moves the same outward thereby freeing pin 12 and allowing spring 11 to exert its influence on gear 5.

When gear 5 makes a complete revolution it is stopped by pin 12 engaging stop 14 and held until spring 11 is again wound. The endless apron is held firmly on roller 2 by presser roller 16.

The casing can be of any desired construction and as shown I have provided the same in one wall with a transparent panel through which the matter conveyed on the apron can be observed.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States of America, is:—

1. An apparatus of the character described comprising a drive roller, driven and idler rollers, an endless apron passing about all of said rollers, gears on said driven rollers, a hollow shaft projecting through said drive roller, a gear fixed to said hollow shaft and meshing with said first named gears, a second shaft extending through said first shaft, a member fixed on the last named shaft and provided with a cam, a coil spring having its ends secured to the gear on said drive roller and to said member respectively, a pin fixed to the gear on said drive roller and projecting beyond said member, and a relatively fixed stop normally engaged by said pin, said stop being disposed to be moved by said cam to release said pin, as specified.

2. An apparatus of the character described comprising a casing, a drive roller, driven and idler rollers supported for rotation, an endless belt passing over all of said rollers, a hollow shaft projecting through said drive roller, a gear fixed to the projecting end portion of said shaft, gears fixed to said driven rollers in mesh with said first named gear, a shaft extending through said hollow shaft, a disk fixed to said last named shaft at the side of said drive gear and provided with a cam on its outer face, a coil spring arranged between said disk and said first named gear and

having its ends secured thereto, a pin fixed to said first gear and projecting outwardly beyond said disk, and a stop fixed to said casing normally engaged by said pin, said stop
5 being formed of spring metal and being disposed to be engaged by the cam on said disk and moved outwardly to release said pin.

Signed at Seattle, Washington this 23d day of November 1906.

JOSEPH C. FOX.

Witnesses:

STEPHEN A. BROOKS,
ARLITA ADAMS.