(No Model.)

H. L. PETERS.

MACHINE FOR EXHIBITING MOVABLE ADVERTISEMENTS.

No. 588,172. Patented Aug. 17, 1897.

Fig. 1.

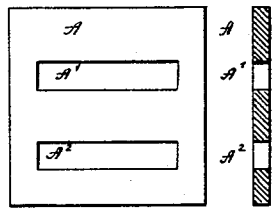


Fig. 2.

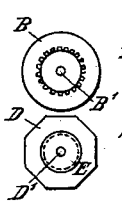


Fig. 3.

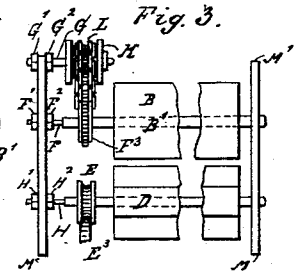


Fig. 4.

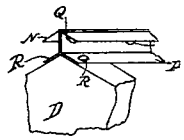


Fig. 5.

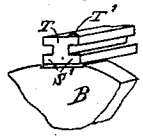


Fig. 6.

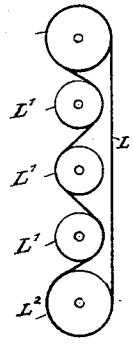


Fig. 7.

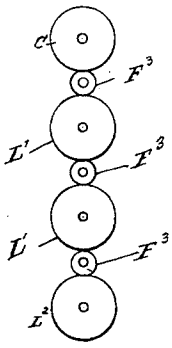


Fig. 8.

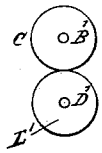
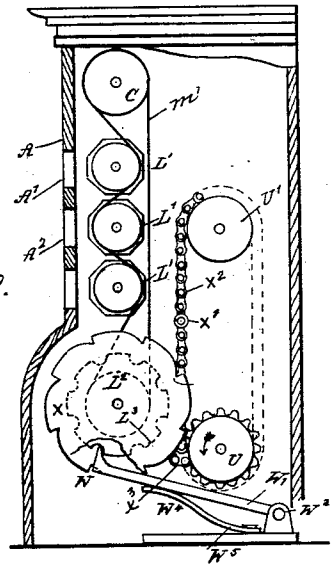


Fig. 9.



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HENRY LAURENCE PETERS, OF SURBITON, ENGLAND.

MACHINE FOR EXHIBITING MOVABLE ADVERTISEMENTS.

SPECIFICATION forming part of Letters Patent No. 588,172, dated August 17, 1897.

Application filed August 10, 1895. Serial No. 558,843. (No model.) Patented in England August 24, 1895, No. 10,890.

To all whom it may concern:

Be it known that I, HENRY LAURENCE PETERS, a resident of Essex Villa, Cadogan Road, Surbiton, county of Surrey, England, have invented certain new and useful Improvements in Machines for Exhibiting Movable Advertisements, Notices, Pictures, Inscriptions, or Designs, (patented in England August 24, 1895, No. 10,890,) of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

My invention relates to improved machinery for exhibiting and displaying notices, advertisements, inscriptions, and the like; and it consists in the construction, combination, and arrangement of the several parts, as will be hereinafter more fully described in the specification and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a panel. Fig. 2 is a sectional elevation of the same, showing the ends of the two drums provided with spindles. Fig. 3 is a front elevation of the machine with the panel removed and showing the drum-actuating mechanism. Fig. 4 shows an attaching device secured to the drum, by means of which the panels are secured in place. Fig. 5 is a modification of the attaching device shown in Fig. 4. Figs. 6, 7, and 8 show the method of grouping and arranging the drums and the belt for actuating the same, and Fig. 9 is a side elevation of the complete apparatus with the side of the casing broken away.

Similar letters of reference designate like parts throughout the several views.

In the practice of my invention I provide a casing, as shown in Fig. 9, provided with a front portion or panel A, in which are formed longitudinal slots A′ and A^2, said panel being shown in elevation in Fig. 1 and in section in Fig. 2, and in the side of the casing are revolubly mounted drums B and D, which have spindles B′ and D′, the ends of which spindles are journaled in the casing, as before stated, and one end of said spindles being restricted, as shown at F and H, Fig. 3, and upon the restricted portions are secured jam-nuts F′ and F^2 and H′ and H^2 to retain said spindles in position, the opposite end of the spindles extending through the casing, as shown in Fig. 3, and upon the spindle F, adjacent to the restricted portions thereof, is a gear-wheel F^3, and mounted on the spindle H, adjacent to the restricted portion of the same, is a pulley-wheel E.

Journaled in the upper portion of the side M of the casing above the spindle F is a shaft G, the end of which passes through an opening in the side M and is provided on each side of the side M of the casing with jam-nuts G′ and G^2, and mounted on the outer end of said shaft G is a gear-wheel K, and connecting the gear-wheel K and the wheel F^3, passing around the wheel E, is a sprocket-chain L, which is shown broken away in Fig. 3, it being understood that the groove in the wheel E is provided with a serrated or roughened surface to enable the chain L to engage and rotate said wheel, together with the sprocket-wheel F^3, thereby rotating the drums B and D, the power being obtained from any suitable motor and connecting with the shaft G by belt or otherwise, or the shaft G may be rotated by the crank, or any suitable means may be employed for rotating the same.

The drum D, Fig. 4, is provided with attachments P, which are provided with an upper and lower flange R, being secured to the drum by screws or other suitable means, the upper flange Q being adapted to receive and retain detachable strips or paddles into which said drums are provided and which are preferably an oblong strip of wood or similar material upon which is printed any desired description, advertisement, or information and which slides within the attachment shown in Fig. 4 and retained in position upon the periphery of the drum and by means of the revolution of the drums are brought before the slots A′ and A^2 in the panel A of the casing.

In Fig. 5 I have illustrated a slight modification of the attachment shown in Fig. 4, which consists in an attachment T, provided with an upper and lower flange S′ and T′, formed by a central groove extending longitudinally thereof, and within said grooves the strips are adapted to be inserted, and this attachment T is here shown secured to the circular drum B.

Referring to Fig. 9, I have illustrated the complete device, but it will be observed that

a different method or means of operating the drums has been employed, consisting of an upper cylinder C and the lower cylinder L^2, which drums are shown octagonal in form and provided with a circular end portion over which a belt M′ passes and rotates said drum by friction. In the lower portion of the casing is mounted a cylinder L^2, provided at one end with a detent-wheel L^3. Secured to the end of said cylinder L^2 is a drive-wheel X, and it will be understood that the belt M′ passes over the cylinder C in the top of the casing and around the cylindrical portion of the drums L′ and over the cylinder L^2 in the bottom of the casing, and mounted in the bottom of the casing in the rear of the cylinder L^2 is a gear-wheel U, and above said gear-wheel U is a pulley-wheel U′, the groove of which is provided with serrations or projections, and over said wheels U and U′ passes a sprocket-chain X^3, provided with a pin or projection X′, adapted to engage the shoulder or projection on the wheel X and rotate the cylinder L^2 a portion of a revolution.

Secured to the bottom of the casing is a plate provided with inwardly-extending lugs W^2, between which is pivotally mounted one end of a lever W′, the free end of which is provided with an upwardly-directed projection, and below said lever or detent W′ is secured a pin W^4, the end W^5 of which is secured to the plate adjacent to the lugs W^2, and the object of this lever or detent W′ is to engage the semicircular concavity or depression in the detent-wheel L^3 to retain the cylinder L^2 and the drums L′ in a certain position in which the strips on said drums will be directly opposite the slots A′ and A^2 in the panel A.

If desired, the sprocket-chain X^3 may be also provided with extensions or projections X^3, adapted to operate in connection with the detent W′ and to release the same from engagement with the semicircular recesses of the detent L^3, and it will be understood that when the projection X^3 disengages the detent from the wheel L^3 the pin X′ will engage the shoulder upon the wheel X and rotate the same until the detent has been released by the projection X^3 and has been forced into one of the notches in the wheel L^3.

In Fig. 6 it will be observed that I have illustrated a detail of the belt connection by which the drums L′ (shown in Fig. 9) are operated, and in Figs. 7 and 8 I have illustrated modifications of the connections shown in Figs. 6 and 9.

The operation of the device will be readily understood from the foregoing description when taken in connection with the accompanying drawings, it being understood that the shaft carrying the wheel U may be operated by belt or other connection with a motor or may be provided with a crank by which the same may be rotated, or, if desired, the said parts may be connected by clock mechanism and may be rotated in this manner.

Various changes and modifications may be made in the construction and arrangement of the several parts without departing from the spirit and scope of the invention.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. An apparatus for exhibiting signs or advertisements, consisting of a casing which is provided with a series of transverse slots and within which casing is removably mounted a plurality of drums carrying strips upon which is secured the advertisement or notice to be displayed, and a cylinder mounted within said casing above said drum, another cylinder mounted in the lower part of the casing below the drums, belt connection between said cylinders and the drums the lower drum being provided with a detent-wheel and a driving-wheel and a lower gear-wheel and an upper pulley-wheel mounted on said casing in the rear of said drums and said last-mentioned wheel being connected by a sprocket-chain carrying a pin adapted to engage the shoulders upon the drive-wheel to rotate the same and means for actuating the lower gear-wheel, substantially as described.

2. An apparatus for exhibiting signs or advertisements, consisting of a casing which is provided with a series of transverse slots and within which casing is revolubly mounted a plurality of drums carrying panels upon which is secured the advertisement or notice to be displayed, and a cylinder mounted within said casing above said drum, another cylinder mounted in the lower part of the casing below the drum, belt connection between said cylinders and said drums, the lower cylinder being provided with a detent-wheel and a drive-wheel a lower sprocket-wheel and an upper wheel mounted in said casing in the rear of said drums and said last-mentioned wheels being connected by a sprocket-chain carrying a pin adapted to engage the shoulders upon the drive-wheel to rotate the same and means for actuating the lower gear-wheel and a spring-actuated detent in the bottom of the casing below said wheels, said detent being adapted to engage the detent-wheel carried by the lower cylinder, substantially as described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 5th day of July, 1895.

HENRY LAURENCE PETERS.

Witnesses:

CHARLES GEORGE SELFE,

ERNEST HENRY SAMUEL BAILEY.