J. HANNERTY.

PICTURE-EXHIBITOR.

No. 191,673. Patented June 5, 1877.

FIG. 1.

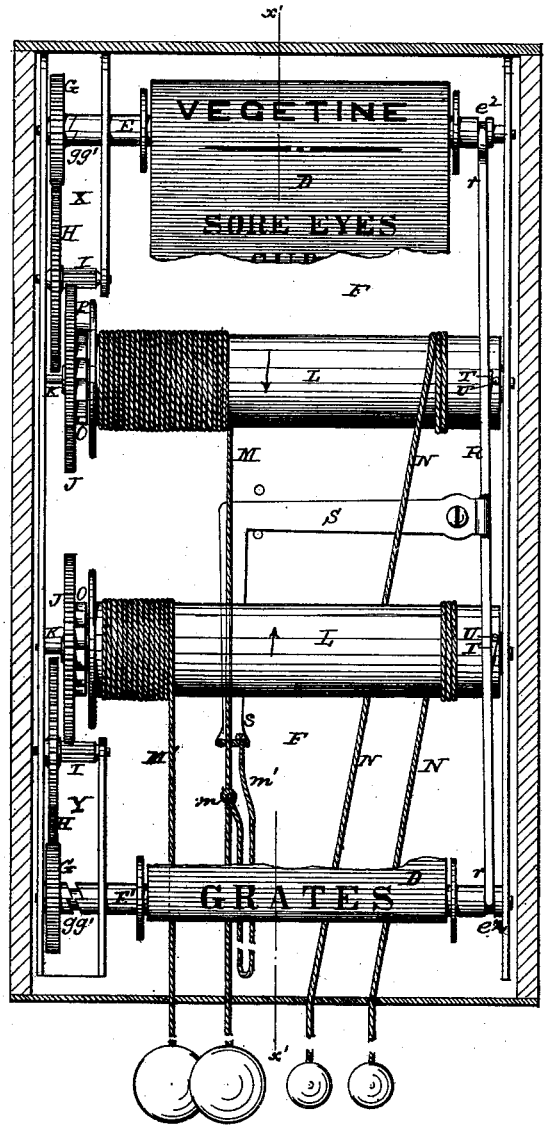
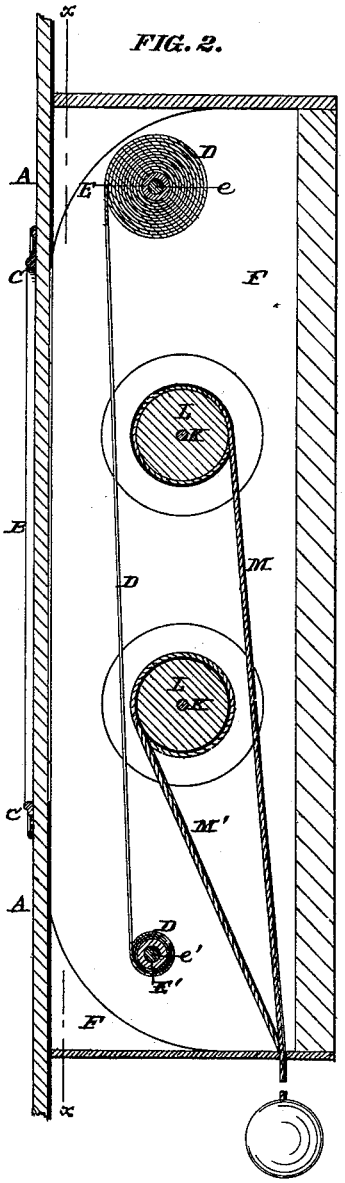


FIG. 2.



ATTEST:

Robert Burns.

Le Blond Burdett.

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atty

UNITED STATES PATENT OFFICE

JAMES HANNERTY, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN PICTURE-EXHIBITORS.

Specification forming part of Letters Patent No. **191,673**, dated June 5, 1877; application filed November 22, 1876.

To all whom it may concern:

Be it known that I, JAMES HANNERTY, of the city and county of St. Louis, and State of Missouri, have invented a certain Improved Exhibitor for Pictures, Printed Matter, or Advertisements, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

My improvement consists in combining with a looking-glass, having a part of its backing removed so as to leave a transparent portion, a movable apron carrying the subjects to be exhibited, and operated by suitable mechanism, as hereinafter more fully described.

In the drawings, Figure 1 is a section at *x x*. Fig. 2 a is section at *x' x'*.

A is a portion of the looking-glass. B is a transparent portion therein, surrounded by a frame, C. D is a belt or ribbon, on which are pictures or printed matter, or both, which are made to move behind the transparent portion B as a panorama. The ends of the belt D are coiled around flanged rollers E and E', which turn on spindles *e e'* journaled in a frame, F, that is attached to the frame of the looking-glass.

Upon the spindle *e* is a spur-wheel, G, and upon the side of the spur-wheel is one member, *g*, of a ratchet-clutch, the other member of which is upon the end of the roller E, so that when the roller (which turns as a sleeve upon the spindle) is pushed toward the wheel G the clutch is engaged and the roller turns with the spindle; but when the roller is moved away from the wheel G the clutch is disengaged, so that the roller E can rotate to allow the uncoiling of the ribbon from it as it is coiled upon the other roller, E'.

H is a spur-wheel engaging with the spur-wheel G, and whose shaft carries a pinion, I, engaging a spur-wheel, J, upon a spindle, K, on which turns a drum, L, upon which is wound the weight-cord M and the winding-cord N. The drum L is free to turn in the direction indicated by the arrow as it is impelled by the drawing down of the winding-cord N, but when it turns in the opposite direction, as impelled by the weight-cord M, it causes the rotation of the spindle by means of the click and ratchet O P, so as to cause (when the clutch *g g'* is engaged) the rotation of the roller E, to coil up the ribbon upon that roller.

The roller E is grooved circumferentially at e^2 to receive a yoke, *r*, which is at one end of a bar, R, which is fixed to one arm of a lever, S, through whose other arm, *s*, passes the weight-cord M. The arm *s* is drawn upward, to disengage the clutch *g g'*, by a knot, *m*, on the weight-cord M, and is drawn to again engage the clutch by a cord, *m'*, fastened to the knot *m* and to the arm *s*.

There is another set of works similar to that described to coil up the opposite end of the ribbon, the arrangement being such that the opening of the ratchet-clutch *g g'* of one set, marked X, will engage a similar clutch of the other set, marked Y. The weight-cord of the latter set is marked M', to distinguish it from that, M, by which the clutch mechanism is operated.

At the side of one or both of the arms of the bar R is an inclined lug, T, which, when that end of the bar is swung outward, is brought in the course of a pin, U, upon the drum L, so as to prevent the movement of the drum under the influence of the weight or cord M', when the clutch of that set of works, Y, is disengaged.

I claim as my invention—

A movable apron, D, carrying pictures, printed matter, or advertisements, and operated by suitable mechanism, in combination with a looking-glass having a transparent portion, B, substantially as set forth.

JAMES HANNERTY.

Witnesses:

SAML. KNIGHT,

ROBERT BURNS.