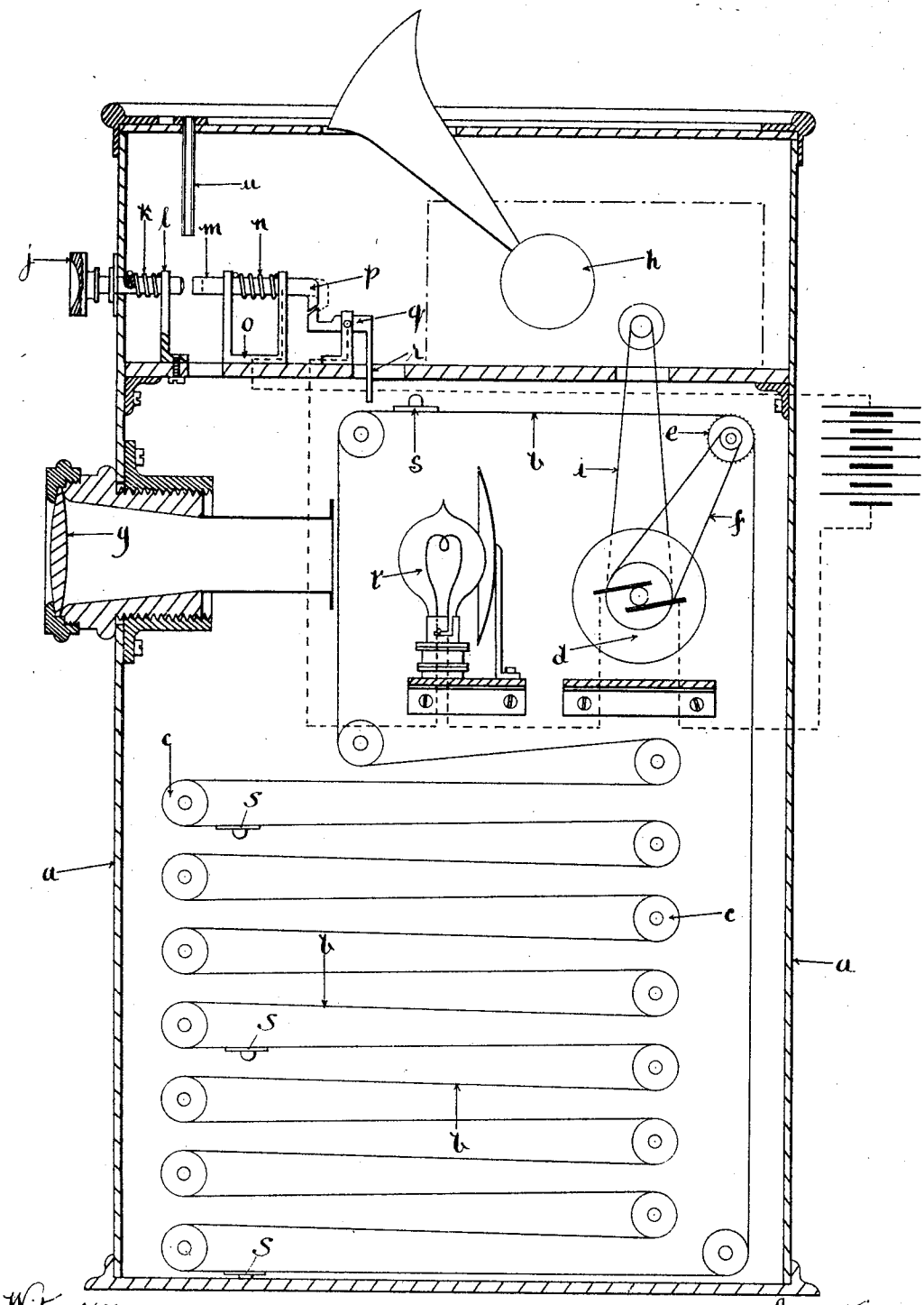
No. 637,904. Patented Nov. 28, 1899.

A. J. SWAAB & R. DE LAMPRECHT.

EXHIBITION AND MUSICAL APPARATUS.

(No Model.) (Application filed June 5, 1899.)



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UNITED STATES PATENT OFFICE.

ALFRED JAMES SWAAB AND RODOLPHE DE LAMPRECHT, OF LONDON, ENGLAND.

EXHIBITION AND MUSICAL APPARATUS.

SPECIFICATION forming part of Letters Patent No. 637,904, dated November 28, 1899.

Application filed June 5, 1899. Serial No. 719,490. (No model.)

To all whom it may concern:

Be it known that we, ALFRED JAMES SWAAB and RODOLPHE DE LAMPRECHT, subjects of the Queen of Great Britain, and residents of London, in the county of Middlesex, England, have invented certain new and useful Improvements in Exhibiting and Musical Apparatus, of which the following is a specification.

This invention consists of a new or improved coin-freed apparatus for enabling pictures to be exposed or viewed.

In carrying out our invention we provide a casing, of any suitable material, in which the glasses or lenses are adjustably carried and stereoscopically arranged. A lamp is provided, which is in connection with the current supplied by any suitable form of battery. A phonograph or other suitable instrument is provided and so arranged as to give the required information or produce the required music, according to the pictures which are exposed. We find it convenient in carrying out our invention to carry the picture on a suitable film, which is passed over rollers and being transparent is illuminated as required by means of the lamp aforesaid. Upon the insertion of a coin—such as a penny—into the slot the release mechanism may be operated by means of a button or push-piece and the apparatus set in motion, and the pictures are viewed, being illuminated, and the required information is given by the phonograph or music or song produced. Suitable stops are provided upon the traveling band carrying the pictures, by the arrangement of which the number of pictures exhibited at each operation is regulated—that is to say, one, two, three, or more pictures may be exhibited in return for the insertion of a coin. The release mechanism which we employ consists of a bolt controlled by a spring. We also provide a pivoted catch for the purpose of retaining the bolt in its operative position for closing the circuit. Upon the insertion of a coin the button is pushed, and the thickness of the coin is sufficient to enable the bolt to be moved to its operative position, thus closing an electric circuit which operates the motor, lamp, phonograph, or other instrument, said motor also causing the film or strip carrying the pictures to move. The play of the button or push is not sufficient to operate the bolt aforesaid without the insertion of a coin. Upon one of the studs or projections upon the film or strip coming into contact with the catch-piece the spring-bolt is released and under the action of the spring returns to its initial position and so breaks the electric circuit.

For purposes of illustration we will now refer to the annexed drawing, in which a sectional side elevation of our invention is shown.

a is an outer casing of suitable material and design. The film *b*, carrying the pictures, passes over the rollers *c*, as shown, and is actuated by the motor *d*, of any suitable construction, through the medium of the toothed wheel *e* and band *f*.

g is the lens, through which the pictures upon the film *b* are viewed, and this lens is arranged stereoscopically, when required, and may be adjusted to suit various sights. The phonograph or instrument *h* is also operated by the motor *d* through the medium of the band *i*, and the required information, music, or song may be reproduced, as required. The push-piece *j* is controlled by the spring *k* and slides in the bearing or support *l*.

m is a bolt controlled by the spring *n* and carried in the support *o* and having a hook or projection *p* thereon. This hook or projection *p* has an inclined surface, as shown, which enables it, when the bolt *m* is operated, to tilt the pivoted piece *q*, which will retain it. The prolongation *r* is adapted to engage, when required, with the stop-pieces or projections carried upon the film *b*. The electric circuit is so arranged that when the bolt *m* is in the position indicated by the dotted lines the circuit is closed through metallic contact being effected between the pivoted catch-piece *q* and the end of the hook or projection *p* upon the sliding bolt *n*, said pivoted catch-piece *q* being in metallic contact with the support which carries same, said support being in the electric circuit, and the electric lamp *t* is also in this circuit, together with the phonograph *h* and motor *d*.

u is a slot through which a coin is passed. When this coin passes between the ends of the push-piece *j* and the bolt *m*, by operating

the push-piece j the bolt m is moved into the position shown by the dotted lines and retained therein by the pivoted catch-piece q. Upon releasing the catch-piece the coin will fall into the required receptacle, and the electric circuit being thus completed the motor d causes the film b to travel and the phonograph h to be operated, while at the same time the lamp t is illuminated. Upon the stop-piece or projection carried upon the film b coming into contact with the pivoted catch-piece q the same is operated and the bolt m released, which then returns to its initial position, and the circuit being broken the movement of the parts will cease.

It will be seen that the essential feature consists in the arrangement of the push-piece j and spring-bolt m, as the movement or play of the push-piece j is not sufficient to operate the bolt m unless the coin is interposed between the end of the push-piece and the bolt m. The stop-pieces or projections s upon the film and band b may be arranged to exhibit the required number of pictures, and the rate at which these pictures will be exhibited will depend upon the speed at which the motor d is driven.

Having thus described our invention, what we claim, and desire to secure by Letters Patent, is—

1. In coin-freed apparatus in combination a traveling band or film, pictures carried upon said band or film; a stereoscopically-arranged lens for viewing said pictures; a motor for operating said film; a toothed wheel engaging with said film and operated by the motor; rollers or drums upon which said film or band is carried; a phonograph operated by said motor; a lamp for illuminating said pictures upon the film; a pivoted catch-piece; a spring-bolt for engagement with said catch-piece for closing the electric circuit operating the motor, phonograph and lamp; a spring push-piece at a distance from said spring-bolt sufficient for the insertion of a coin so as to enable the spring-bolt to be moved through the medium of the push-piece and by engaging upon the catch-piece close the circuit; studs or projections upon said band for operating the catch-piece and releasing the spring-bolt aforesaid, said electric circuit illuminating the lamp and operating the motor and phonograph when closed through the medium of the spring-bolt and catch-piece, substantially as described and illustrated herein and for the purpose set forth.

2. In coin-freed apparatus a spring-bolt carried in suitable bearings; an inclined surface or projection upon said spring-bolt; a pivoted catch-piece adapted to engage upon the projection aforesaid for the purpose of closing the circuit; a spring push-piece carried in suitable bearings for operating said spring-bolt when a coin is interposed between the end of the spring push-piece and said bolt; a slot for the passage of said coin; a prolongation upon said catch-piece; studs or projections upon the traveling band for operating the same for the purpose of releasing the spring-bolt, said spring-bolt and catch-piece being in connection with an electric circuit which is completed when the projection upon the spring-bolt is in metallic contact with the catch-piece aforesaid, substantially as described and illustrated herein and for the purpose set forth.

In testimony that we claim the foregoing we have hereunto set our hands this 1st day of May, 1899.

ALFRED JAMES SWAAB.
RODOLPHE DE LAMPRECHT.

Witnesses:
JAMES FLEMING,
P. H. WALLER.