E. S. PORTER.

KINETOSCOPE CASING.

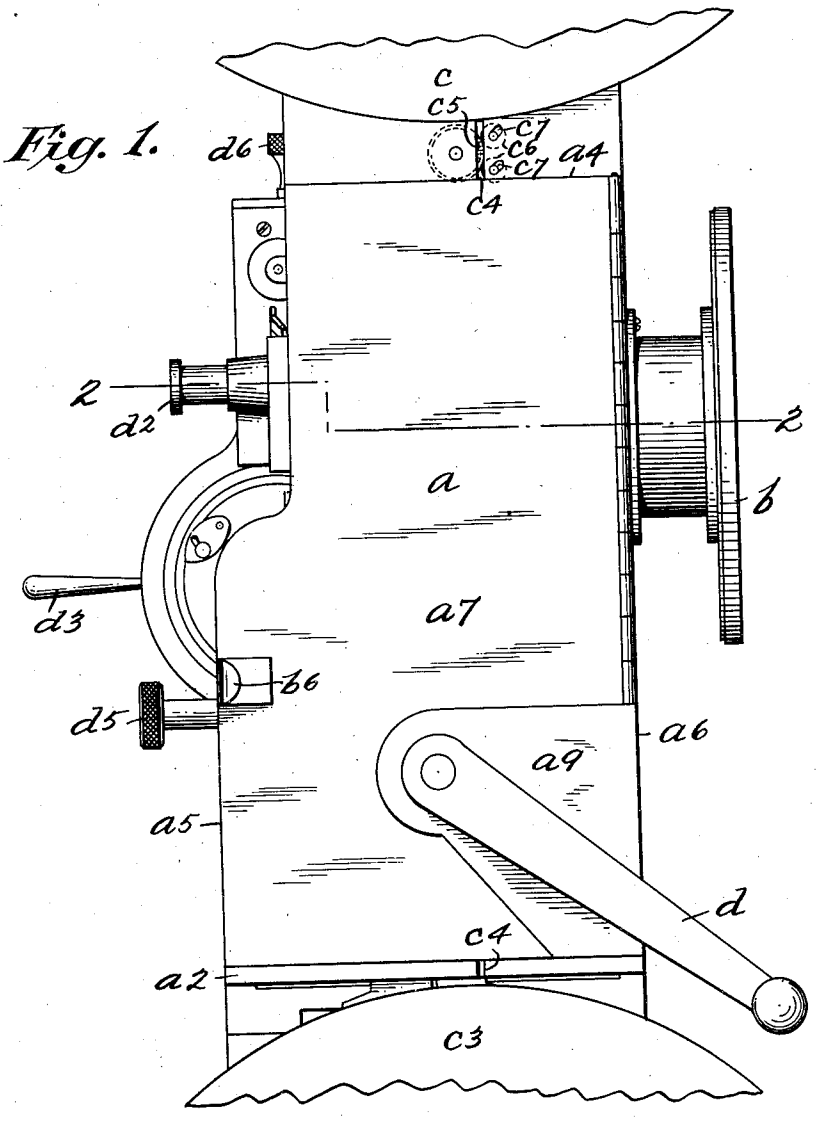
APPLICATION FILED AUG. 11, 1911.

1,190,582.

Patented July 11, 1916.

4 SHEETS—SHEET 1.

Fig. 1.



Attest:

S. Van Horn

by

Inventor:

Edwin S. Porter

J. Chris Larsen Atty.

E. S. PORTER.

KINETOSCOPE CASING.

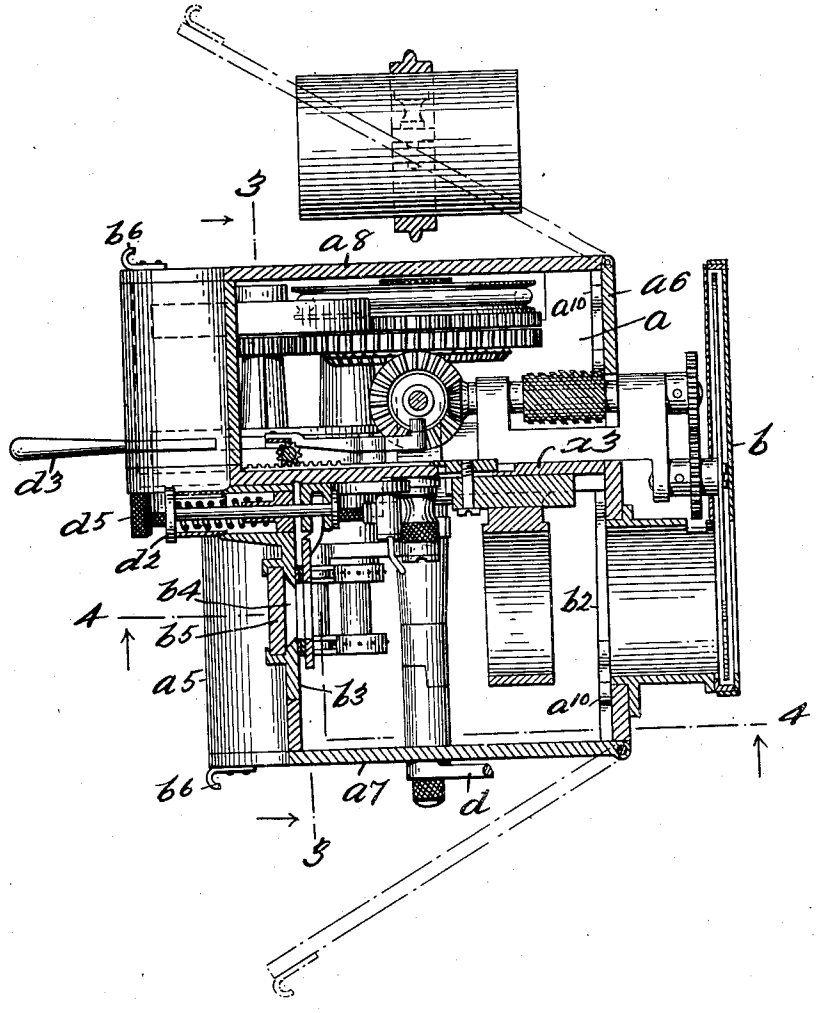
APPLICATION FILED AUG. 11, 1911.

1,190,582.

Patented July 11, 1916.

4 SHEETS—SHEET 2.

Fig. 2



Attest:
M. M. Ginn
S. VanSoye

by

Inventor:
Edwin S. Porter
J. Chris Larson Atty

E. S. PORTER.

KINETOSCOPE CASING.

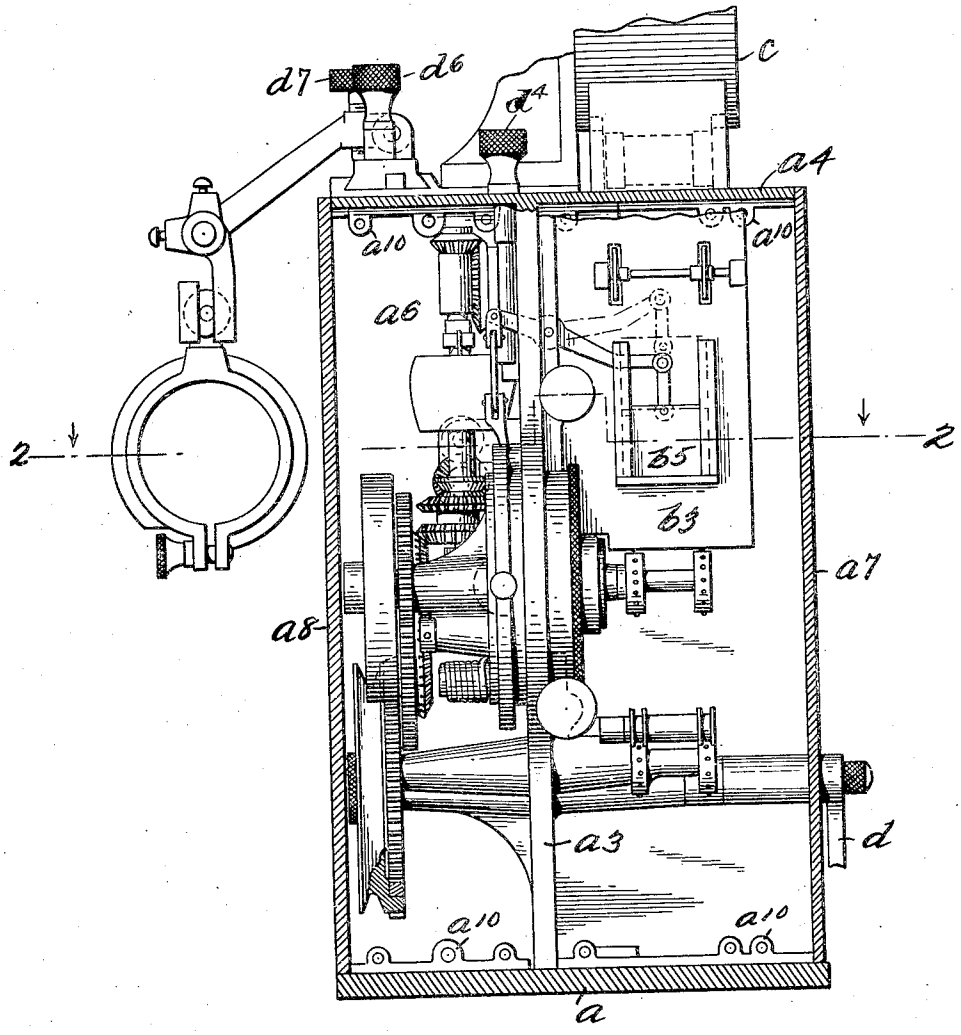
APPLICATION FILED AUG. 11, 1911.

1,190,582.

Patented July 11, 1916.

4 SHEETS—SHEET 3.

Fig. 3



Attest:

W. Thos. Gunn

S. Van Horn

by

Inventor:

Edwin S. Porter

J. Chris Larson Atty

E. S. PORTER.

KINETOSCOPE CASING.

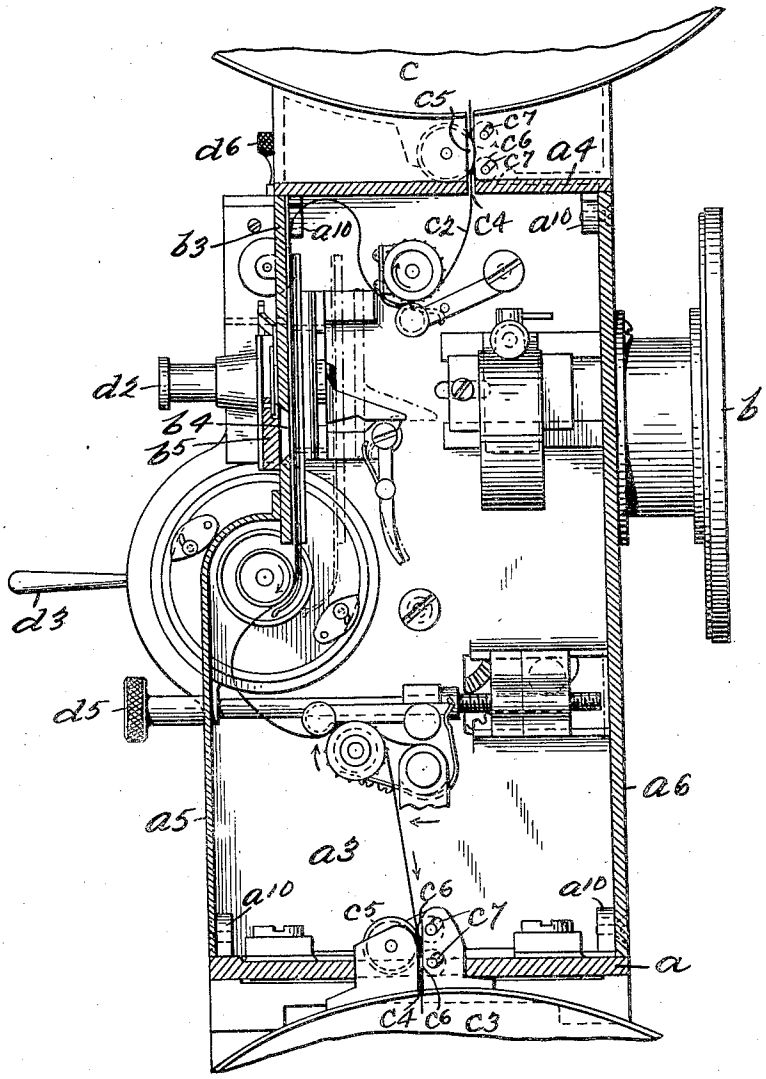
APPLICATION FILED AUG. 11, 1911.

1,190,582.

Patented July 11, 1916.

4 SHEETS—SHEET 4.

Fig. 4.



Attest:

M. M. McGinn

S. Van Horn

by

Inventor:

Edwin S. Porter

J. Chris Larson Atty.

UNITED STATES PATENT OFFICE.

EDWIN S. PORTER, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO FRANCIS B. CANNOCK, OF NEW YORK, N. Y.

KINETOSCOPE-CASING.

1,190,582. Specification of Letters Patent. Patented July 11, 1916.

Original application filed March 4, 1911, Serial No. 612,417. Divided and this application filed August 11, 1911. Serial No. 643,477.

To all whom it may concern:

Be it known that I, EDWIN S. PORTER, a citizen of the United States of America, and residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Kinetoscope-Casings, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to kinetoscopes, being matter divided out of Letters Patent of the United States No. 1,041,345 granted Oct. 15, 1912, and the object thereof is to provide a complete and fireproof envelop or inclosure for the film and operative parts of the mechanism; a further object is to provide such an envelop, hereinafter referred to as a casing, which permits the ready removal of any or all of its sides, and two of the sides of which are hinged to give access to the kinetoscope mechanism; a further object is to provide a base plate having an approximately central wall which serves as the support for the said mechanism, thus leaving all the outer walls independent thereof; a further object is to connect the casing top with this central wall in order that the outer walls may be independent thereof and the kinetoscope be operative with all such walls removed, that is the kinetoscope mechanism; a further object is to provide a light-aperture and a fire-door therefor which effectually closes the same when the kinetoscope is not in operation; a further object is to provide film slits in the top and base of the said casing, adjacent the magazine and rewind drums, and also to provide means for effectually closing said slots whereby the film, if ignited, will not burn beyond said preventive means; and still further objects are to provide such casings which are simple in construction and assembling, which are formed of a plurality of parts whereby the cost of manufacture is reduced and repairs made very economically, which fully overcome the dangers heretofore experienced, and which are well adapted to the purposes for which they are intended.

My invention is fully described in the following specification, of which the accompanying drawings form a part, in which the separate parts are designated by the same reference characters in each of the views, and in which:—

Figure 1 is a side elevation of a kinetoscope casing constructed according to my invention; Fig. 2 is a section taken approximately on the line 2—2 of Fig. 1; Fig. 3 is a section taken approximately on the line 3—3 of Fig. 2; and Fig. 4 is a section taken approximately on the line 4—4 of Fig. 2.

In the drawings forming a part of this application I have shown a casing a, comprising a base a^2 having a partition a^3 approximately centrally thereof and extending entirely across the casing and over which is arranged the top plate a^4, said base, partition, and top, being normally in permanent connection, and preferably integral with each other, and serve as the support for a rear wall a^5 and a front wall a^6, the latter having two doors a^7 and a^8 hinged thereto, one on either side of the casing and, by reference to Fig. 1, it will be seen that the covering door a^7 has a portion a^9 divided therefrom and in permanent connection with the base in any suitable manner and the purpose of which will be hereinafter explained, and it will be seen by the drawings that the base and top are provided with upwardly and downwardly directed lugs to receive screws or the like whereby the rear and front walls are held in position, the lugs being shown at a^{10}. The front wall a^6 also carries a shutter casing b in the position of the shutter opening b^2 of the casing a, and the rear wall is preferably divided into a main portion a^5 and an independent portion b^3 provided with the light aperture b^4 and a fire-door b^5 therefor, automatically operated as described in the patent above referred to, and suitable catches b^6 are provided to lock the doors a^7 and a^8 to the rear wall a^5.

By reference to the drawings it will be seen that all the kinetoscope mechanism is carried by the partition a^3, thus permitting the removal of the casing a without interfering with the operation of said mechanism, but the controlling and regulating devices of the said mechanism are all arranged exteriorly of said casing, said devices comprising the operating crank d held in the permanent portion a^9 of the casing, the trap-door push-button d^2, the sprocket

and shutter synchronizing lever d^3, the independent shutter adjusting screw d^5, the lens-adjusting thumb-nut d^4, the stereopticon focusing turn-button d^6 and elevating button d^7, and it will be noted that all these devices are arranged in such position as to be readily and conveniently reached by the left hand of the operator while his right hand is engaged turning the crank d and during the kinetoscope operation and without any interference therewith, the elements affected by the said devices, and the manner thereof, being clearly set forth in the above named patent, as also in other copending applications.

Secured to the top a^4 is the magazine-drum c for the film c^2, and secured to the base is the re-wind drum c^3, slots c^4 being provided whereby the said film may be quickly threaded, and adjacent each of these slots I provide a main roller c^5 and two gravity rollers c^6 slidable in inclined slots c^7, the object of these rollers being to maintain a certain tension on the film, and to prevent the spread of fire to the said drums in the event of the film being ignited within the casing if the door is open, for there is no possibility of such ignition if the door is closed for the reason that the casing a forms a hermetically closed envelop, the only opening of which through which film ignition could occur being closed when the film is motionless and being opened automatically when projection is desired and at which time the film is rapidly moved and in slight danger of ignition.

It will be observed that the rear wall a^5 is provided with several convex projections, these serving to cover certain parts of the mechanism, but these projections are integral with the wall and removable therewith, and from the foregoing it will be seen that the entire casing may be disassembled, with the exception of the parts a^9 b^3 without interfering in any way with the operation of the mechanism or removing any part thereof and, when in position, serves as a positive protection against fire or the introduction of foreign matter.

My invention is very simple in construction and assembling, and entirely overcomes the dangers heretofore experienced in machines of this class and, while I have shown my casing designed for a specific type of kinetoscope, it will be obvious that I may adapt the same to other types and still be within the spirit of my invention, and with a reservation to myself of all such changes as may come within the scope of the following claims, what I claim as new, and desire to secure by Letters Patent, is:—

1. A kinetoscope, comprising a base, a vertical support thereon, operative kinetoscope mechanism carried by said support, a removable inclosing envelop for said mechanism and independent thereof having two openings in line with each other, one in the front wall provided with a shutter and one in the rear wall provided with a closure, and automatic means for actuating said closure in the kinetoscope operation.

2. A kinetoscope, comprising a base, a vertical support thereon, a top, operative kinetoscope mechanism carried by said support and a removable inclosing envelop for said mechanism independent thereof comprising a front wall, a rear wall, and hinged side walls, said front and rear walls being provided, each, with an opening in line with each other, one of which is provided with an automatic closure and the other with a shutter, both operative with said mechanism.

3. A kinetoscope, comprising a base, a vertical support thereon, a top, operative kinetoscope mechanism carried by said support, a crank for operating said mechanism, and a removable inclosing envelop for said mechanism consisting of front and rear walls independent of the said kinetoscope mechanism and provided with openings therethrough in line with each other, and hinged side walls also independent of the said kinetoscope mechanism, a portion of one of said walls being in permanent connection with said base to provide a support for said crank, whereby said inclosing envelop may be removed without removing said crank.

4. A kinetoscope comprising a base, a vertical support thereon, a top, operative kinetoscope mechanism carried by said support, and a removable inclosing envelop for said mechanism consisting of front and rear walls independent of the said kinetoscope mechanism provided with openings in line with each other, and side walls also independent of the said kinetoscope mechanism hinged to said front wall, said base, plate, and top being integral, and said front, rear and side walls being in detachable engagement therewith.

5. A kinetoscope, comprising a base, a single vertical support secured to said base substantially centrally thereof, a top plate supported by said support, operative kinetoscope mechanism also supported by said support, and a removable inclosing envelop for said mechanism comprising two parts, both of which are adapted to be detachably secured to said base, and said top plate, one of said parts comprising a plurality of walls hingedly connected together.

6. A kinetoscope, comprising a base, a single vertical support secured to said base substantially centrally thereof, a top plate supported by said support, operative kinetoscope mechanism also supported by said support, and a removable inclosing envelop for said mechanism comprising two parts, both of which are adapted to be detachably se-

cured to said base, and said top plate, one of said parts comprising a rear wall and the other comprising a front wall, having two side walls hingedly connected thereto, and means for detachably securing the said side walls to said rear wall.

7. A kinetoscope comprising a base, a vertical support thereon, a top, operative kinetoscope mechanism carried by said support, a crank for operating said mechanism and an inclosing envelop for said mechanism, including front and rear walls independent of said mechanism and provided with openings therethrough in line with each other, and side walls, one of which comprises a relatively small portion connected to said base to provide a support for said crank and a relatively large hinged portion independent of the crank and the supporting means therefor, and adapted to be opened to permit access to said mechanism.

In testimony that I claim the foregoing as my invention I have signed my name in presence of the subscribing witnesses this 25th day of July 1911.

EDWIN S. PORTER.

Witnesses:
S. VAN HORN,
J. C. LARSEN.