A. F. GALL.

SUPPORT.

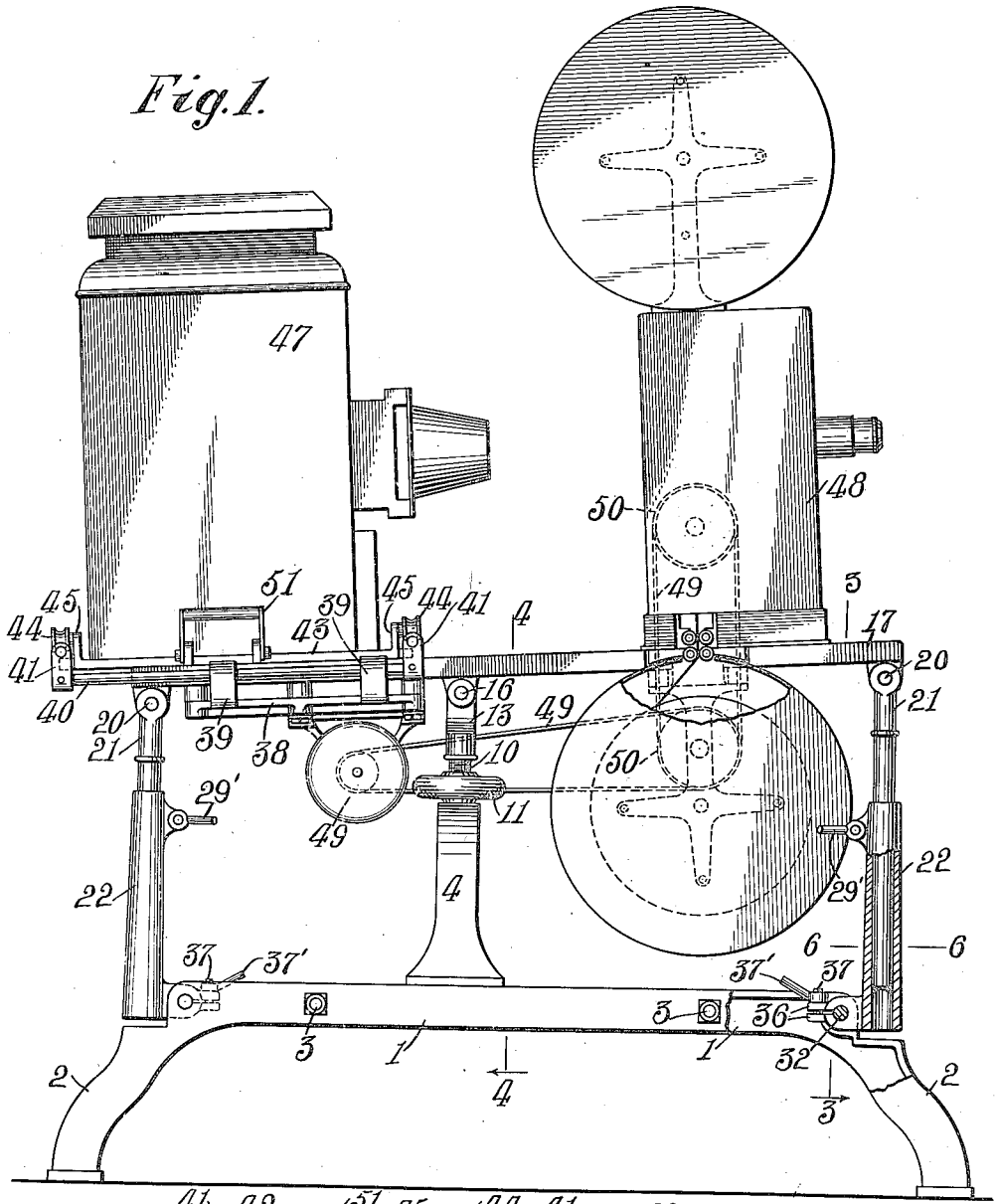
APPLICATION FILED JUNE 27, 1913.

1,230,819.

Patented June 19, 1917.

2 SHEETS—SHEET 1.

Fig. 1.



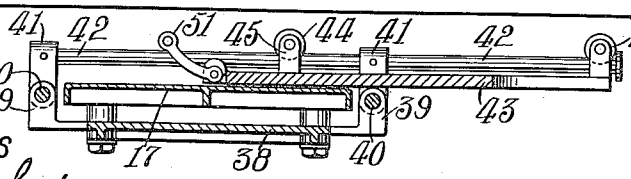


Fig. 5.

WITNESSES

J. A. Boopsley

William A. Hardy.

INVENTOR

Adolph F. Gall

BY Dyer & Holden

his ATTORNEYS

A. F. GALL.

SUPPORT.

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Patented June 19, 1917.

2 SHEETS—SHEET 2.

Fig. 2.

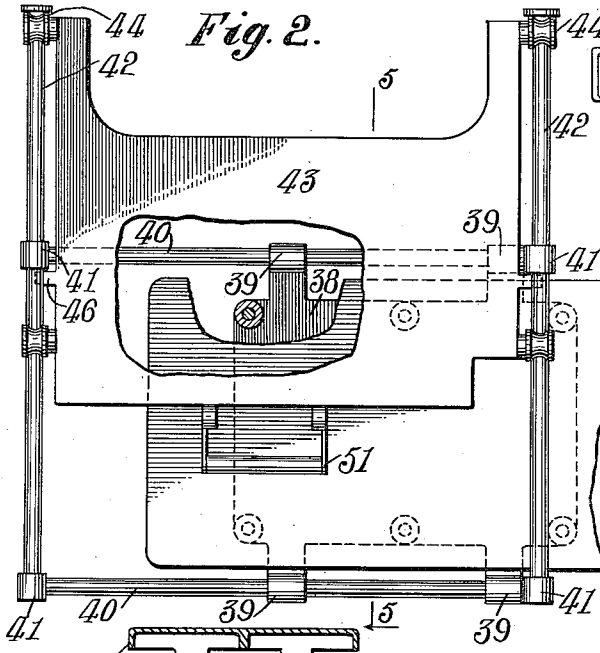


Fig. 6.

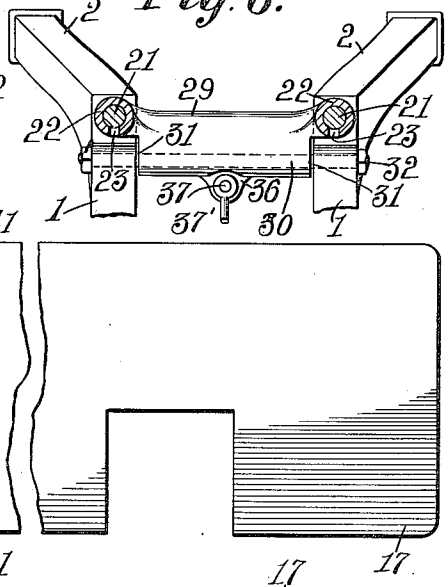


Fig. 3.

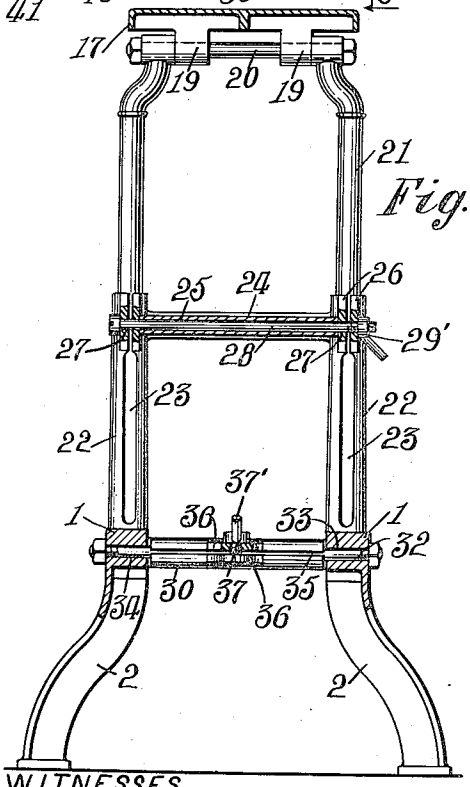
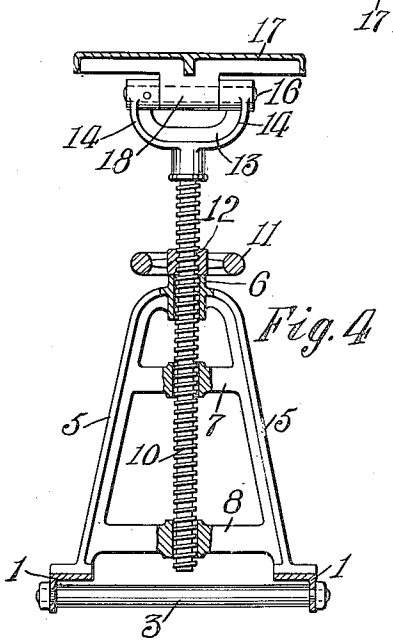


Fig. 4



WITNESSES

J. A. Brophy

William A. Hardy

INVENTOR

Adolph F. Gall

BY Dyer & Holden

his ATTORNEYS

UNITED STATES PATENT OFFICE.

ADOLPH F. GALL, OF WEST ORANGE, NEW JERSEY, ASSIGNOR, BY MESNE ASSIGNMENTS, TO NEW JERSEY PATENT COMPANY, OF WEST ORANGE, NEW JERSEY, A CORPORATION OF NEW JERSEY.

SUPPORT.

1,230,819. Specification of Letters Patent. Patented June 19, 1917.

Application filed June 27, 1913. Serial No. 776,021.

To all whom it may concern:

Be it known that I, ADOLPH F. GALL, a citizen of the United States, and a resident of West Orange, Essex county, New Jersey, have invented certain new and useful Improvements in Supports, of which the following is a description.

My invention relates to supports and more particularly to a support or table of an improved type which is especially adapted for use with projecting machines, and which is designed for such adjustment as to render it possible to effect changes in the position of a projecting machine or other device supported thereby.

The principal object of my invention is to provide a firm and substantial supporting device of this character, which, while of simple construction, is capable of such adjustment as to cause a projecting machine carried thereby to display pictures in proper position on a screen when the projecting machine is located either in a position directly in front of the screen or above or below such position.

A further object of the invention is to provide, in a device of this character, improved means for mounting the lamp house of a moving picture machine whereby it will be possible to easily and quickly move the lamp house laterally out of operative position with respect to the head of the moving picture machine to permit repairs or adjustment of the head and to prevent destructive action of the heat emanating from the lamp on the moving picture film when the latter is not being fed through the machine, and so that the lamp house can be operatively positioned with respect to the usual "stereopticon" lens (not shown) for the display of lantern slide pictures on the screen.

Other objects and features of my invention reside in the construction of parts and combinations of elements hereinafter more fully described and claimed.

While my invention may be embodied in various forms, the preferred form is shown by way of example in the accompanying drawing forming a part of this specification, and in which:

Figure 1 is a side elevation, partly in section, of an embodiment of my invention as used in connection with a moving picture machine;

Fig. 2 is a plan view of the supporting device shown in Fig. 1, parts being omitted and parts being broken away in order to show more clearly certain details of the device;

Fig. 3 is a transverse sectional view on line 3—3 of Fig. 1 looking in the direction of the arrow, with parts, in the rear of the plane on which the section is taken, shown in section;

Fig. 4 is a transverse sectional view on line 4—4 of Fig. 1 looking in the direction of the arrow, parts being omitted, and the bracket and hand wheel coöperating therewith being shown partly in section;

Fig. 5 is a transverse sectional view on line 5—5 of Fig. 2 looking in the direction of the arrow; and

Fig. 6 is a sectional view on line 6—6 of Fig. 1.

In all the views, like parts are designated by the same reference characters.

My improved support comprises a base having two horizontal side bars 1, supported at their ends by legs 2, and secured in properly spaced parallel relation adjacent their ends by means of the transversely extending bolts 3. Also forming a part of the base and fixed to the bars 1 substantially midway of their length is an upwardly extending bracket 4 comprising converging side pieces 5, joined at their upper ends to form a bearing portion 6 and the transverse connecting webs 7 and 8. Preferably, bars 1, legs 2, and bracket 4 are formed integrally as a casting. Alined openings 9 are provided in the bearing portion 6 and the transverse webs 7 and 8 of the bracket, and a vertical screw threaded rod 10 is slidably mounted in said openings. A hand wheel 11 having a screw threaded opening 12 is threaded on the rod 10 and rests on the flat upper surface of bearing 6 of the bracket. Obviously, by turning hand wheel 11, the rod 10 may be vertically adjusted in the bracket.

Secured to the upper end of the rod 10 is a yoke 13 in the arms 14 of which is se-

cured a transversely extending pin 16. A flat bed plate 17 is pivotally mounted on the pin 16 secured to yoke 13 by means of a depending lug 18 formed integrally with the bed plate substantially midway of its length and provided with an opening in which the pin 16 is received.

The bed plate 17 is provided at each of its ends with a pair of depending spaced lugs 19, to which are pivotally connected by means of a bolt 20 two rods 21. The rods 21 each telescope in a hollow rod 22 which is provided with a longitudinally extending slit 23. The rods 22 at each end of the bed plate are connected adjacent their upper ends by transverse webs 24, preferably formed integral therewith, and which are provided with longitudinal openings 25 extending therethrough. The ends of each web 24 terminate adjacent the slits 23 in the pair of rods 22 which the web connects, and on the opposite sides of these slits 23 are formed lugs 26 having openings 27 in alinement with the opening 25 in the web 24. Bolts 28 pass through the alined openings in the lugs 26 and webs 24 and are provided at one end with nuts 29′. It will be apparent that by turning nuts 29′ the rods 22 may be clamped to the rods 21 to hold the latter in any adjusted position with respect thereto.

Each pair of rods 22 at the ends of the support are connected at their lower ends by means of a web 29 preferably formed integrally therewith, which web is provided with a laterally extending portion 30 having shoulders 31 at its opposite ends. The extending portion 30 of the web is pivotally secured to the base of the table or support by means of a bolt 32 which extends through an opening in portion 30 and alined openings 33 and 34 in the side bars 1.

The wall of the opening through the laterally extending portion 30 of each of the webs 29 is slitted as at 35, and on opposite sides of the slit, lugs 36 are formed. A bolt 37 passing through alined openings formed in said lugs and a nut 37′ on the bolt provide means by which the web 29 may be clamped to the bolt 32 in any adjusted angular position with respect thereto.

Secured to the under side of and at one end of the bed plate 17, as by means of bolts, is a rectangular plate 38 having on each of its opposite sides a pair of upwardly extending apertured lugs 39. Secured in lugs 39 are parallel rods 40 provided at their ends with upturned apertured lugs 41 which extend above the bed plate 17. Parallel rods 42 are secured in the lugs 41, which rods 42 extend transversely of the bed plate 17 above the same and for a considerable distance beyond one side of the bed plate. A rectangular plate 43 is movably supported on the rods 42 by means of flanged rollers 44 rotatably mounted on upwardly extending lugs 45 formed on the rectangular plate 43 at opposite ends thereof. The rods 42 serve as a track on which the plate 43 can be moved transversely of the table, and in order to limit such movement, the plate 43 is provided on its opposite ends with stops 46, which are adapted to engage one pair of the lugs 41 of the rods 40, as shown in Fig. 2 of the drawings.

Secured to the plate 43 is the lamp house 47, the plate 43 acting as a carrier for the lamp house, through the engagement of its rollers 44 with the rods 42, to convey the same into or out of operative position with respect to the head 48 of the moving picture machine. Reference character 51 represents a handle secured to the plate 43, whereby the latter may be shifted laterally on the track formed by rods 42. The head 48 is secured to the bed plate 17 at the end thereof opposite the end to which plate 38 is secured. While the moving picture machine may be manually operated, I preferably provide an electric motor 49 suitably supported from the under side of the bed plate 17, which is adapted to operate the film feeding mechanism of the head 48 by means of suitable power transmitting mechanism, such as belts 49 and pulleys 50.

For the purposes of the invention, it will be apparent that, on loosening nuts 29′ and 37′, the bed plate 17 may be vertically adjusted by turning hand wheel 11 and may be angularly adjusted about a horizontal axis by turning the same about its pivotal connection with rod 10. After the bed plate 17 has been so adjusted as to locate the moving picture machine, or other device carried thereby, in the desired position, the same may be firmly held in such position by tightening nuts 29′ and 37′. An improved construction, which is specifically described above, is also provided for supporting a lamp house on the bed plate 17 for lateral movement with respect thereto, whereby the same may be readily moved to or from its operative positions for the purposes hereinbefore set forth.

Having now described my invention, what I claim as new and desire to protect by Letters Patent is as follows:—

1. In a support, a base, a bed plate, means pivotally connecting the bed plate and the base intermediate the ends of the bed plate whereby the relative angular positions of the base and bed plate may be adjusted, and means for holding said bed plate and base in any adjusted relative angular positions, said means comprising an element secured to said bed plate adjacent one end thereof, an element mounted on said base for angular movement relative thereto and telescopically engaging said first named element, means for locking said elements together,

and means for locking the element mounted on said base in adjusted angular position relative thereto, substantially as described.

2. In a support, a base, a bed plate, means pivotally connecting the bed plate and the base intermediate the ends of the bed plate whereby the relative angular positions of the base and bed plate may be adjusted, and means for holding said bed plate and base in any adjusted relative angular positions, said means comprising a rod pivotally secured to said bed plate adjacent one end of the latter, a hollow rod pivotally secured to said base and telescopically engaging said first rod, means for locking said rods together, and means for locking said hollow rod in adjusted angular position relative to said base, substantially as described.

3. A support for projecting machines, comprising a bed plate on which a projecting machine is adapted to be mounted, a base, and means connecting said bed plate and base, comprising a screw threaded rod pivoted to said bed plate intermediate its ends, a bracket secured to said base, said bracket being provided with a vertical opening in which the screw threaded rod is loosely mounted, a hand wheel bearing on said bracket and threaded on said rod, and means for holding said bed plate in any adjusted position with respect to said base, comprising a pair of telescopically connected members at one end of the bed plate, said members being respectively pivotally connected to the bed plate and base, means for locking said members together, and means for locking one of said members in adjusted angular position relative to said base, substantially as described.

4. A support for projecting machines, comprising a bed plate on which a projecting machine is adapted to be mounted, a base, and means connecting said bed plate and base, comprising a screw threaded rod pivoted to said bed plate intermediate its ends, a bracket secured to said base, said bracket being provided with a vertical opening in which the screw threaded rod is loosely mounted, a hand wheel bearing on said bracket and threaded on said rod, and means connecting the base and bed plate at opposite ends for locking said bed plate in any adjusted position with respect to said base, said last named means comprising rods pivotally secured to said bed plate, hollow members pivotally secured to said base and telescopically engaging said rods, means for locking said rods and said hollow members together, and means for locking said hollow members in adjusted angular position relative to said base, substantially as described.

This specification signed and witnessed this 24th day of June 1913.

ADOLPH F. GALL.

Witnesses:
WILLIAM A. HARDY,
MARY J. LAIDLAW.