C. N. MARCEAU.

DEVICE FOR COLORING MOTION PICTURES.

APPLICATION FILED APR. 15, 1908.

906,813. Patented Dec. 15, 1908.

Fig. 1.

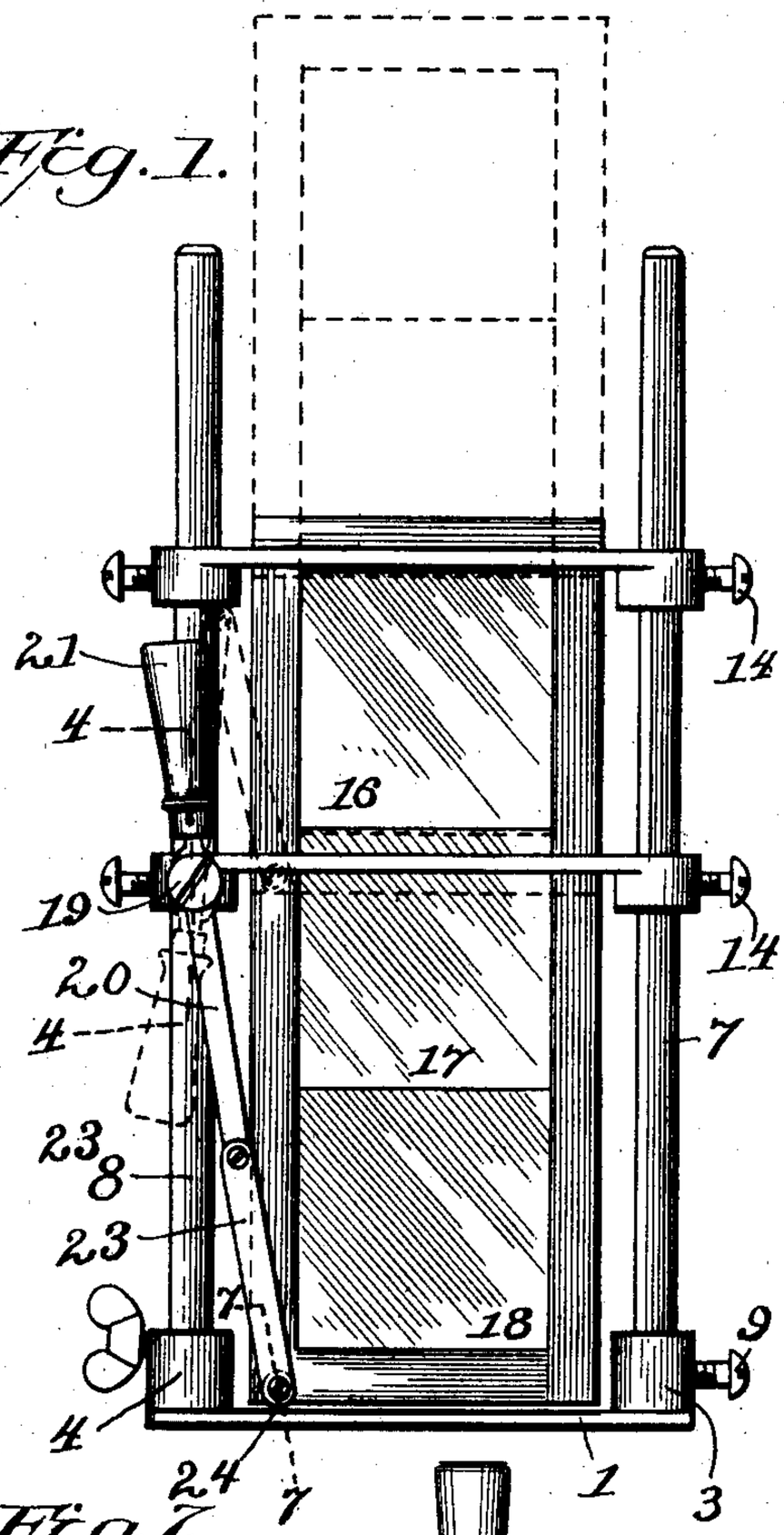


Fig. 2.

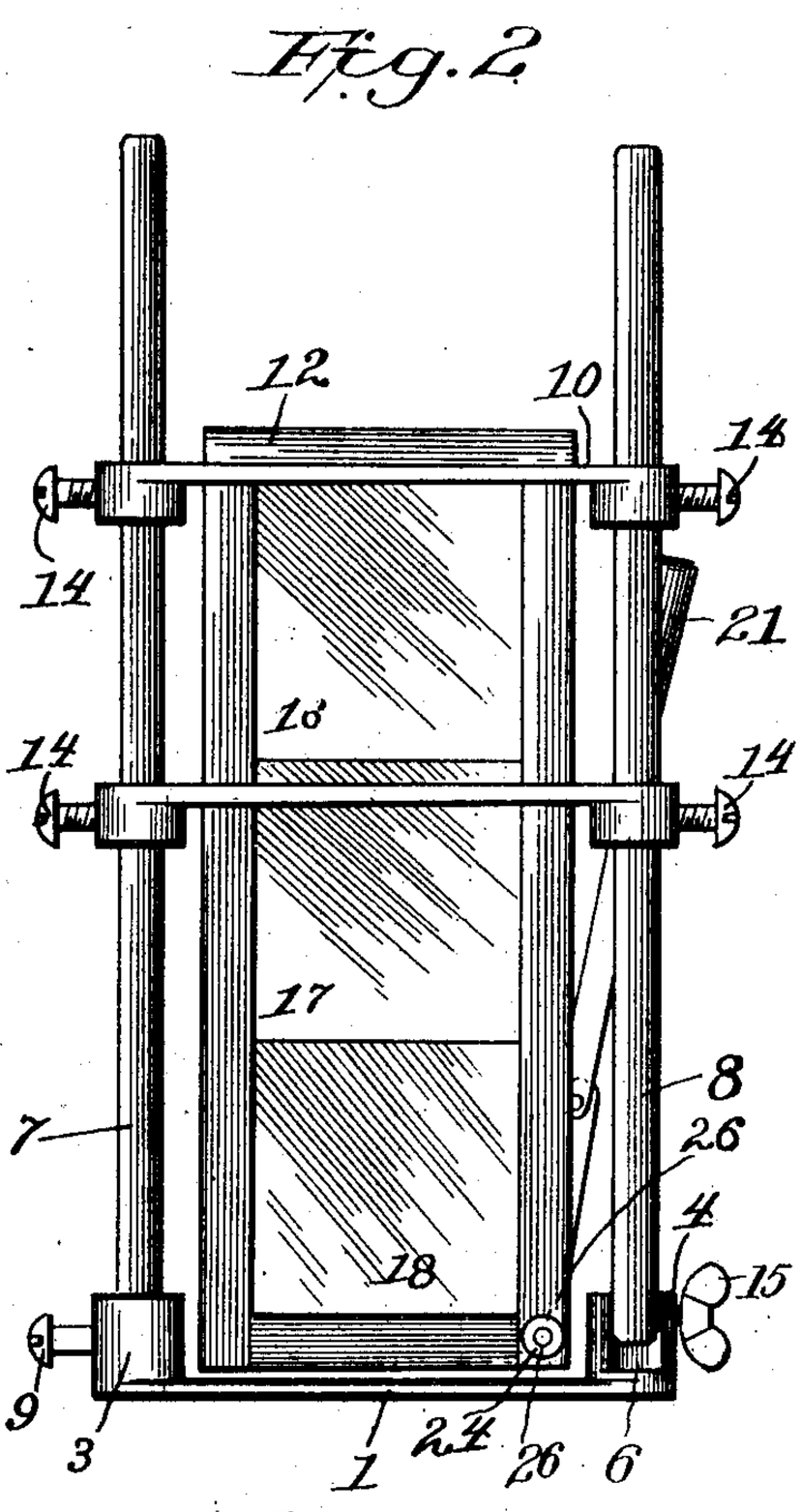


Fig. 7.

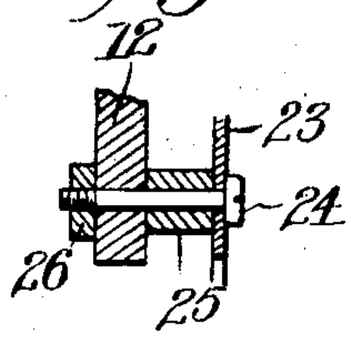


Fig. 4.

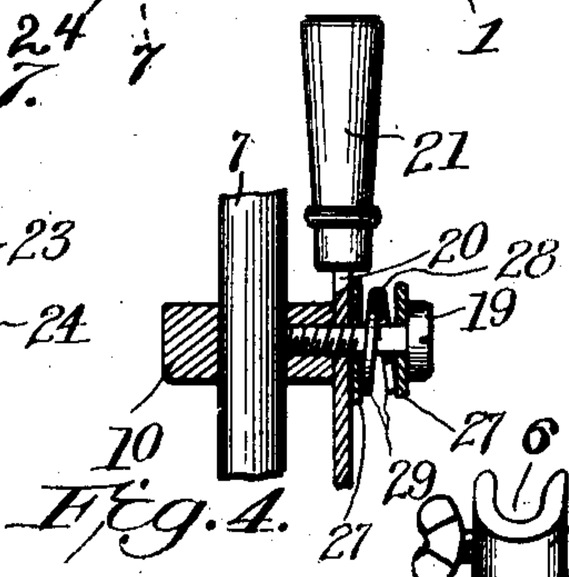


Fig. 3.

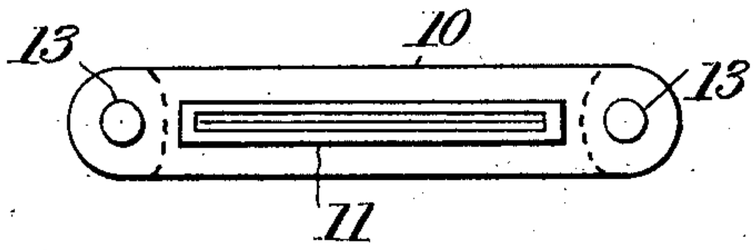


Fig. 6.

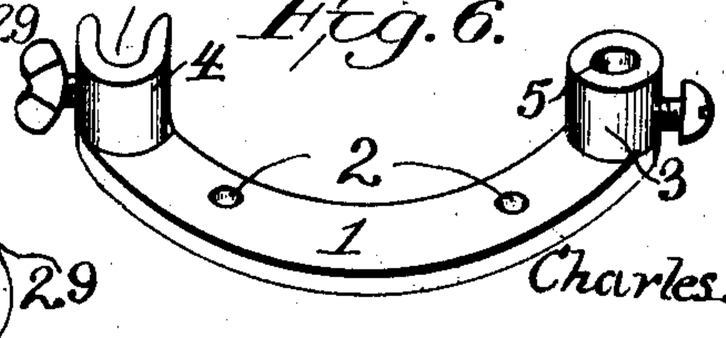
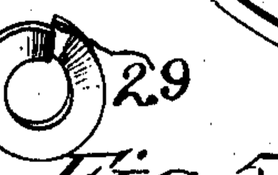


Fig. 5.



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UNITED STATES PATENT OFFICE.

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DEVICE FOR COLORING MOTION-PICTURES.

No. 906,813. Specification of Letters Patent. Patented Dec. 15, 1908.

Application filed April 15, 1908. Serial No. 427,244.

To all whom it may concern:

Be it known that I, CHARLES N. MARCEAU, a citizen of the United States, residing at Ogdensburg, in the county of St. Lawrence and State of New York, have invented certain new and useful Improvements in Devices for Coloring Motion-Pictures, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a device for coloring motion pictures, and has for its object the provision of means for facilitating the coloring of motion pictures when thrown upon the canvas.

My device is a simple structure adapted to be placed between the lamp-house and the motion picture machine, and can color the pictures according to the desire of the operator.

With these and other objects in view, the invention consists of certain novel construction, combinations, and arrangements of parts, as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a view in elevation, looking at one side of the device, and Fig. 2 is a similar view looking at the opposite side. Fig. 3 is a top plan view of one of the guides, and showing the sliding-frame therein. Fig. 4 is a vertical, sectional view taken on line 4, 4, Fig. 1. Fig. 5 is a perspective view of the spring. Fig. 6 is a perspective view of the base. Fig. 7 is a sectional view taken on line 7, 7, Fig. 1.

Referring to the drawings by numerals, 1 designates the curved base, constituting a support, that is provided with vertical apertures 2, for receiving any suitable fastening means for attaching the same to a support or platform. The base 1 is provided, at one end, with a vertical post 3, and at its opposite end with a vertical post 4. The post 3 is provided with a vertical socket 5, and the post 4 is provided with a vertical pocket or notched portion 6.

In the socket 5 is positioned the lower end of the vertical rod 7, constituting a standard, and in the socket 6 is positioned the lower end of a rod or standard 8. A set-screw 9 is threaded into post 3, and is adapted to clamp, at its inner end, the standard or rod 7, for preventing the standard or rod from being displaced or accidentally lifted out of the post.

I, preferably, employ a pair of horizontal guides 10, constituting a frame, each guide being provided intermediate its ends with an elongated slot or aperture 11, in which slides the frame 12. Each guide 10 is provided, near its ends, with apertures 13, through which extend the standards or rods 7 and 8. Each end of the guide is enlarged, Figs. 1 and 2, for reinforcing the frame at that part in which the apertures 13 are formed, whereas the body portion, in which the elongated openings or apertures 11 are formed, is comparatively thin, as the strain exerted upon the body portion is reduced to a minimum. Set-screws 14 are threaded through the enlarged portions at the ends of the guides 10, and said screws engage, at their inner ends, the standards or rods 7 and 8 for securely fastening the guides 10 in an adjusted position upon said rods or standards.

It is to be noted that I have provided sliding frames upon the rods or standards 7 and 8, which can be adjusted longitudinally thereof to any desired position. By reason of the open side of the socket or pocket 6, the whole frame carried by the rods or standards 7 and 8 can be swung to one side of the plate or base 1, by merely loosening the thumb-screw 15, which is threaded into post 4, and which thumb-screw normally engages at its inner end the rod or standard 8 near its lower end, and holds the rod or standard therein. The operator sometimes desires to swing the frame to one side, and by loosening said screw, the entire weight of the sliding frame 12, guides 10, and swinging rod or standard 8 will be supported upon the post 3, when the frame is swung around, causing the standard or rod 7 to rotate, at its lower end in its bearing.

For raising and lowering the slidable frame 12, carrying the colored panes or glasses 16, 17, and 18, I have provided a simple device, which will automatically be fastened in any position upon the operator releasing the same; said lifting and lowering device comprises a screw 19, threaded into one of the enlarged portions at the end of the lower guide 10, Figs. 1 and 4, and pivotally mounted upon screw 19, is a lever 20, which is provided with a grip 21. The lever 20 is pivotally connected, at 22, to the inner end of a link 23, and the outer end of the link is pivotally connected to a screw 24, which screw 24 carries a collar 25 between link 23 and frame 12 for spacing the link from the frame and facilitating the adjust-

ment of the frame in the guides. A nut 26 is threaded upon the extended end of screw 24 and against the opposite face of the frame. Interposed between the head of screw 19 and the lever 20, is a pair of washers 27; the washers 27 being carried by the shank of the screw. An expansible member or spring 28 is carried by the shank of screw 19 between the washers 27, and the ends 29 of said spring extend outwardly and in opposite directions; the tension of the same is controlled by the threading of the screw 19 upon the guide. By threading the screw inward, the pressure exerted upon the inner washer, and, consequently, the lever, can be greatly increased, so that while the lever can be manually swung upon the screw 19, still, as soon as pressure is removed, the sliding frame 12 will be held in the adjusted position upon the guides 10. Therefore, it will be seen that the washers 27 and spring 28 constitute frictional means for automatically fastening the sliding-frame 12 in an adjusted position.

What I claim is:

1. In a device of the character described, the combination with a support, of vertical standards carried by said support, guiding means connecting said standards, a slidable frame engaging said guiding means, and lever and link means pivotally mounted upon said guiding means and pivotally connected to said frame.

2. In a device of the character described, the combination with a support, of a revoluble standard carried by said support, guides slidably mounted upon said standard, means for securing said guides in an adjusted position upon said standard, a slidable frame mounted in said guides, and means for raising and lowering said frame upon said guides.

3. In a device of the character described, the combination of a plate provided with a post, a standard rotatably mounted at its lower end in said post, said standard provided with guiding means, a sliding frame engaging said guiding means, and means for raising and lowering and means for automatically holding said frame in an adjusted position upon said guiding means.

4. In a device of the character described, the combination with a support, of a plurality of vertical standards carried by said support, guiding means supported by said standards, a vertically-movable frame engaging said guiding means, and means positioned to one side of said frame for moving the same and means for automatically holding the frame in an adjusted position upon the guiding means.

5. In a device of the character described, the combination with a support, standards carried by said support, guiding means carried by said standards, of a slidable frame carried by said guiding means, a screw threaded into said guiding means, a lever provided with a grip portion, pivotally mounted upon said screw, means pivotally connecting said lever to said frame, and a spring positioned between the head of said screw and said lever, whereby pressure is exerted upon said lever for normally holding the same in an adjusted position, and thereby retaining the frame also in an adjusted position.

6. In a device of the character described, the combination with a support, standards carried by said support, guiding means carried by said standards, of a sliding frame carried by said guiding means, a member, provided with a head, carried by said guiding means, a manually-operated member carried by said headed-member, means connecting said manually-operated member to said sliding frame, a pair of washers positioned upon said headed-member between its head and said manually-operated member, and yielding means positioned between said washers for clamping one of the washers upon said manually-operated member for normally holding the same in an adjusted position.

7. In a device of the character described, the combination with a support, standards carried by said support, of a guide, means adjustably mounting said guide upon said standards, a frame slidably mounted in said guide, a screw provided with a head threaded into said guide, a lever provided with a grip, pivotally mounted upon the shank of the screw between its head and said guide, and a split spring mounted upon the shank between said lever and head.

8. In a device of the character described, the combination with a support, of guiding means, means supporting said guiding means upon said support, a frame slidably mounted in said guiding means, lever means, means pivotally mounting said lever means upon said guiding means, and means connecting said lever means to said frame whereby when said lever means is swung, said frame will be adjusted upon said guiding means.

9. In a device of the character described, the combination with a plate provided with a pair of posts, a standard or rod engaging each post, one of said posts provided with a side-opening for permitting the standard engaging said post to be swung outward, guides connecting said standards, and means securing said guides to said standards whereby one standard may be rotated in a post, and the other standard swung outwardly from the support, and a frame adjustably mounted upon said guides.

10. In a device of the character described, the combination of a plate provided near its ends with vertical posts, a rod journaled

in one of said posts, a rod mounted in the other post, means fixedly connecting said rods, means for securing said rods in said posts, one of said posts being provided with a side-opening, whereby one of the rods may be swung outward therefrom, a frame slidably engaging the connecting means, and means for adjusting said frame.

11. In a device of the character described, the combination with a plate, of a rod rotatably mounted upon said plate, said rod provided with frame-guiding means, means securing said frame-guiding means in an adjusted position upon said rod, and a slidable frame mounted upon said guiding means, said guiding means and frame being adapted to be swung to one side of said plate when said rod is rotated.

12. In a device of the character described, the combination of a plate provided, at its ends, with vertical posts, one post provided with a vertical socket and the other post provided with a socket and a side-opening, a rod rotatably mounted, at its lower end, in the post provided with a vertical socket, a rod positioned at its lower end in the socket of the other post and being adapted to be swung outward, means carried by said posts for clamping the rods, guiding and connecting means adjustably secured to said rods, and a frame provided with a transparent pane or sash, slidably mounted upon said connecting means.

13. In a device of the character described, the combination with standards, of a guide adjustably mounted upon said standards, means securing said guide in an adjusted position, a frame slidably mounted in said guide, a lever pivotally mounted upon said guide, a link pivoted near one end to said lever and near its opposite end to the lower portion of said frame, whereby, when said lever is swung, the frame will be adjusted upon the guide.

14. In a device of the character described, the combination with a support, of a pair of vertical standards, carried by said support, a guide provided with an elongated opening or slot intermediate its ends, slidably mounted upon said standards, set-screws extending through portions of said guide and engaging, at their inner ends, the standards for securing the guide in an adjusted position, and a frame slidably mounted in the elongated opening of said guide.

15. In a device of the character described, the combination with a support, of standards carried by said support, means connecting said standards, a frame slidably mounted upon said connecting means, lever means, means supporting said lever means upon one of said standards, a link pivotally connected near one end to said lever means, a screw engaging the lower end of said frame, a sleeve mounted upon said screw between its head and the frame, said link being positioned upon said screw between its head and the outer end of said sleeve.

16. In a device of the character described, the combination of a plate provided with a pair of posts, a pair of rods engaging said posts, a pair of guides slidably mounted upon said rods, set-screws carried by said guides and adapted to engage said rods for fixedly securing the guides in an adjusted position, set-screws carried by said posts for holding the rods therein against rotary movement, one of said posts being provided with a side-opening, whereby, when one rod is rotated upon its post, the other rod will be swung outward, a frame slidably mounted in said guides, and means carried by one of said guides for raising and lowering said frame upon the guides.

17. In a device of the character described, the combination with a pair of vertical standards, of guides slidably mounted upon said standards, a sliding-frame positioned in portions of said guides, lever means positioned contiguous to said frame, and means connecting said lever means to the lower end of the frame, whereby, when said lever means is swung upon its pivot, or fulcrum, said frame will be adjusted upon the guides.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLES N. MARCEAU.

Witnesses:

CHRISTOPHER C. MARCEAU,

JNO. F. WELLS.