A. L. McNAUGHTON.

DROP LIGHT BRACKET.

APPLICATION FILED MAR. 26, 1919.

1,357,295.

Patented Nov. 2, 1920.

3 SHEETS—SHEET 1.

Fig. 1.

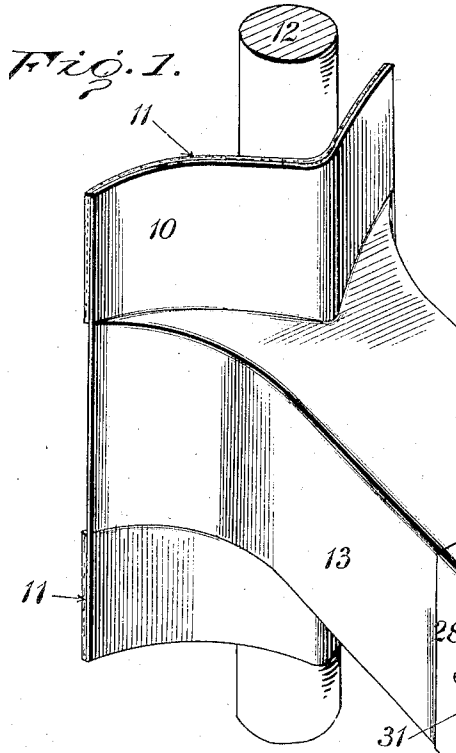
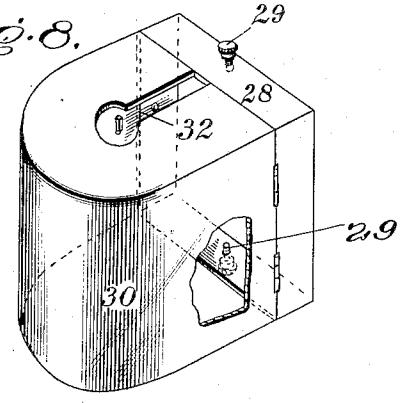


Fig. 8.



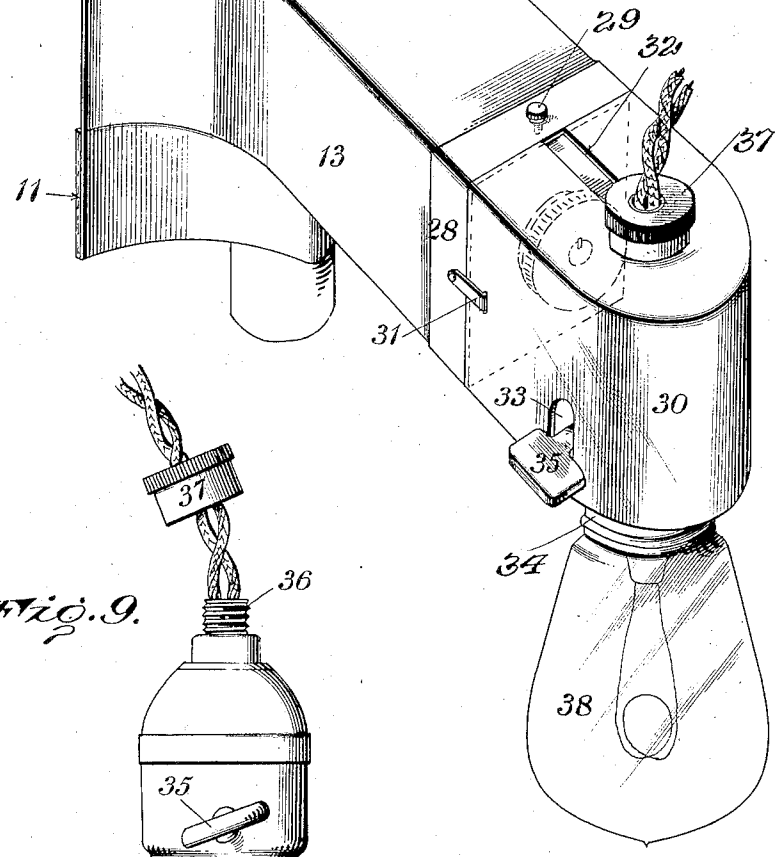


Fig. 9.

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3 SHEETS—SHEET 2.

Fig. 2.

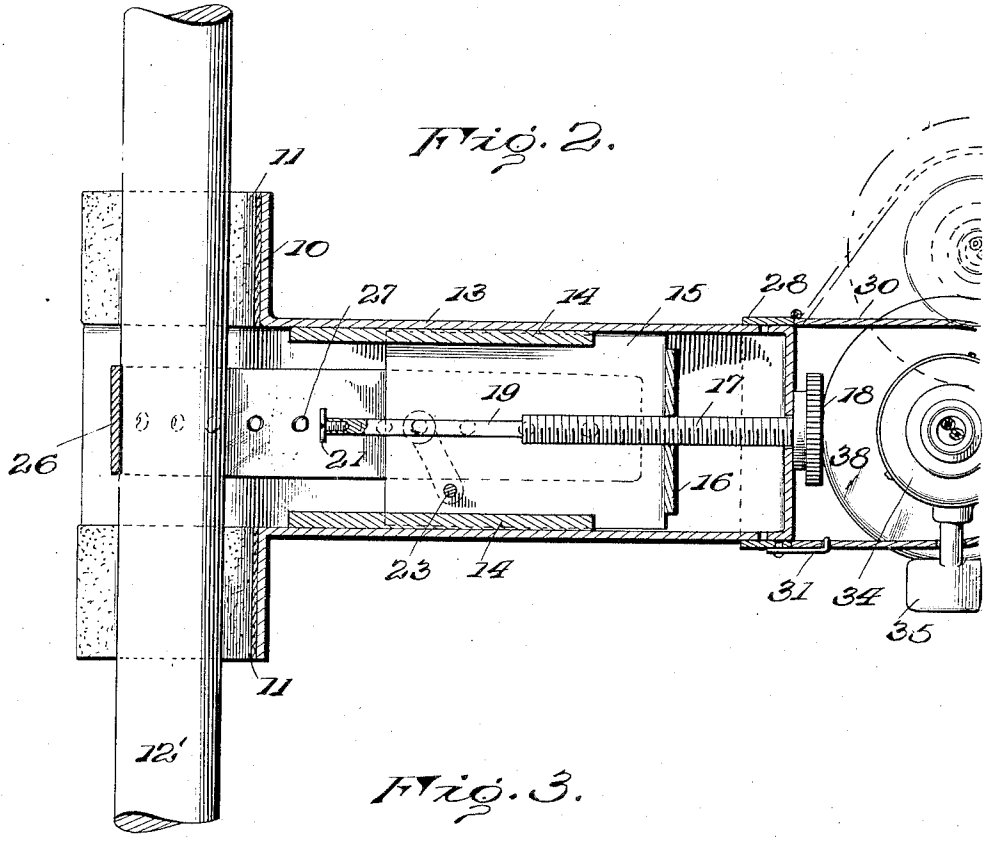
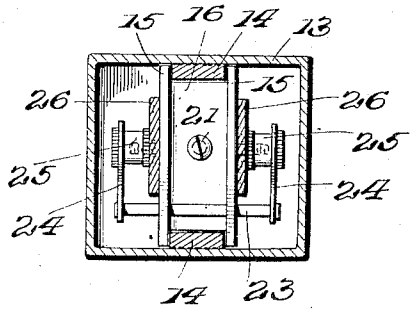


Fig. 3.



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3 SHEETS—SHEET 3.

Fig. 4.

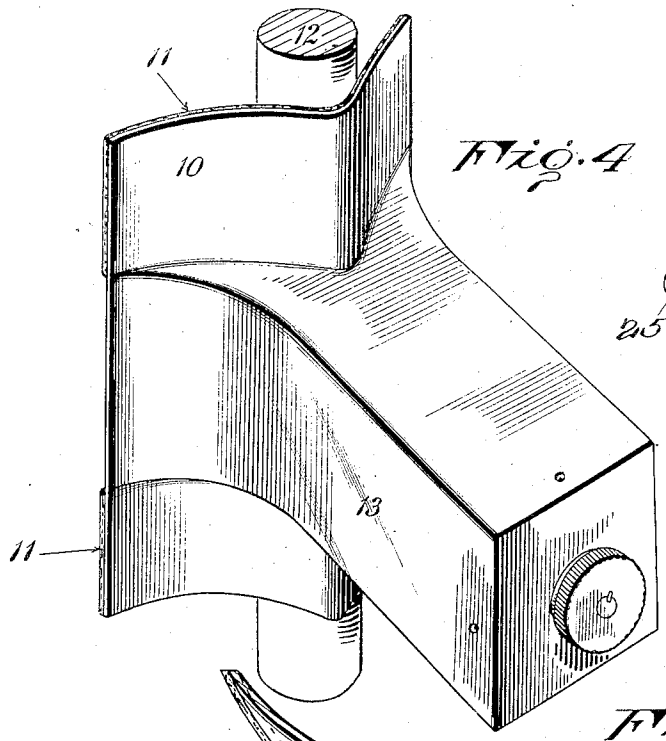


Fig. 7.

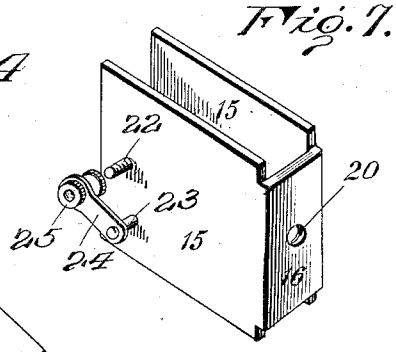


Fig. 5.

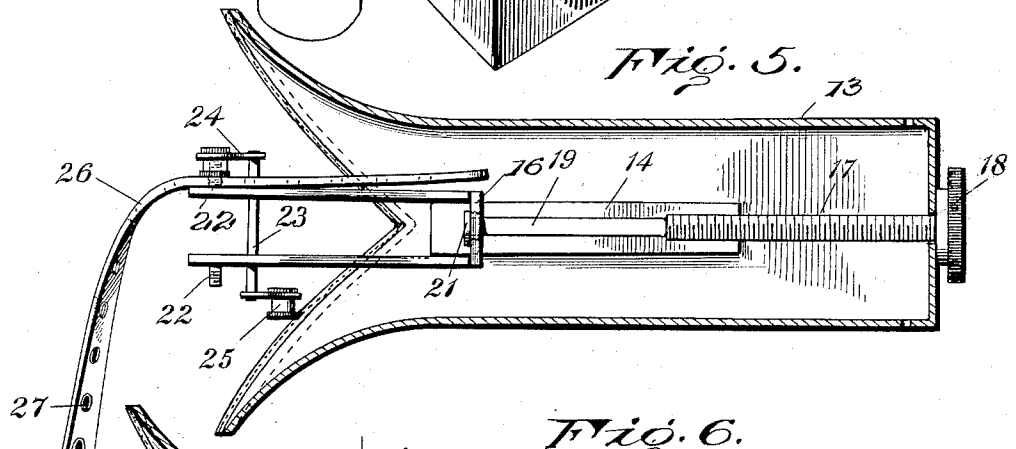
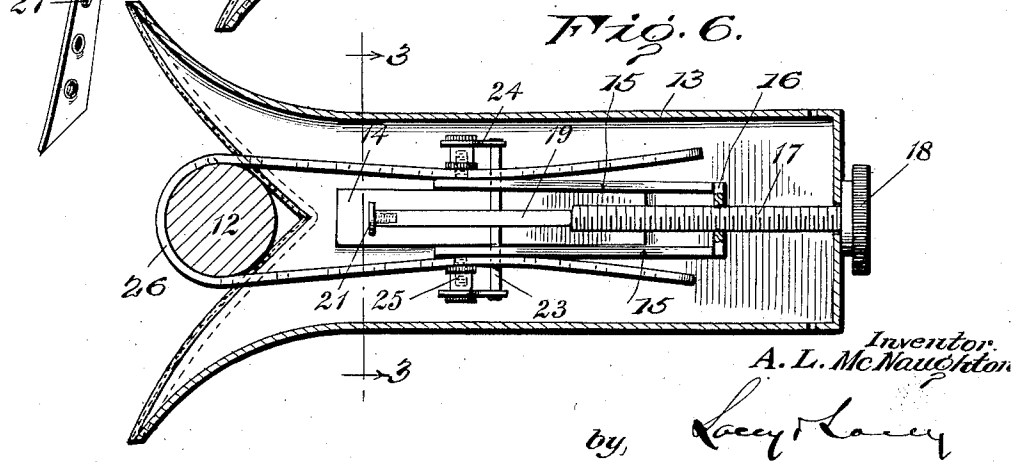


Fig. 6.



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UNITED STATES PATENT OFFICE.

ALEXANDER LORNE McNAUGHTON, OF KAMLOOPS, BRITISH COLUMBIA, CANADA.

DROP-LIGHT BRACKET.

1,357,295. Specification of Letters Patent. Patented Nov. 2, 1920.

Application filed March 26, 1919. Serial No. 285,322.

To all whom it may concern:

Be it known that I, ALEXANDER LORNE McNAUGHTON, a citizen of the Dominion of Canada, residing at Kamloops, in the Province of British Columbia and Dominion of Canada, have invented certain new and useful Improvements in Drop-Light Brackets, of which the following is a specification.

This invention relates to an improved drop light bracket and has as its primary object to provide a device of this character which may be connected to a post, bedstead or other convenient support, for sustaining a drop light in convenient position for reading.

The invention has as a further object to provide a bracket which may be securely clamped to a support and which may be connected to either a vertical or horizontal support.

And the invention has as a still further object to provide a bracket employing a readily detachable holder for an electric light socket, the holder being so constructed that the socket itself is readily detachable therefrom, so that the drop light either with or without the socket holder may be detached from the bracket and moved about.

Other and incidental objects will appear hereinafter. In the drawings:

Figure 1 is a perspective view illustrating the bracket connected to a vertical support,

Fig. 2 is a horizontal sectional view showing the device connected to a horizontal support,

Fig. 3 is a transverse sectional view taken on the line 3—3 of Fig. 6 and looking in the direction of the arrows,

Fig. 4 is a perspective view showing the bracket arm and base of the device in detail, the socket holder employed being detached,

Fig. 5 is a medial horizontal sectional view of the bracket arm and base taken at substantially right angles to Fig. 2,

Fig. 6 is a view similar to Fig. 5,

Fig. 7 is a perspective view showing the clamping slide employed in detail,

Fig. 8 is a perspective view showing the lamp socket holder in detail, and

Fig. 9 is an elevation showing a conventional lamp socket modified for use in connection with the present invention.

In carrying the invention into effect I employ an angle shaped base 10 the sides of which are preferably provided with facings 11. In Figs. 1, 4 and 6 I have conventionally shown a vertical support 12 while in Fig. 2 I have similarly shown a horizontal support at 12'. As will be clear the facings will, in each instance, contact with the support to prevent marring thereof. Projecting from the base medially thereof and integral therewith is a laterally directed hollow arm 13 preferably square in cross section. This arm may be formed of suitable sheet metal as may also the base 10, and riveted or otherwise secured to the inner sides of the top and bottom walls of the arm are longitudinally directed medial guide strips 14. Adjustable within the arm is a clamping slide or yoke. This slide is shown in detail in Fig. 7 of the drawings and, as there illustrated, is substantially U-shaped being formed with spaced parallel side plates 15 joined by a connecting plate 16. The plate 16 is cut away at its top and bottom edges to receive the guide strips 14 while the plates 15 confront opposite edges of these strips fitting snugly between the top and bottom walls of the arm. The slide will thus be centered within the arm by the guide strips and directed in its movements longitudinally of the arm thereby. Associated with the slide is an adjusting screw 17 therefor. This screw is freely received through a suitable opening formed centrally of the outer end wall of the arm and is provided with a terminal head 18 which is preferably milled so that the screw may be easily rotated. Formed on the screw is a reduced smooth inner end portion 19. This reduced inner end portion of the screw is adapted to loosely fit within a threaded opening 20 formed centrally in the connecting plate 16 of the slide and threaded axially into the inner terminal of the screw is a head 21 connecting the slide with the screw. In this connection it will, of course, be understood that the threaded portion of the screw is adapted to engage within the threaded opening 20 of the slide so that upon rotation of the screw the slide will be adjusted longitudinally in the bracket arm.

Fixed within the outer ends of the side plates 15 of the clamping slide are outwardly directed lateral studs 22 and extending through the plates in a plane somewhat below and in the rear of these studs is a rod 23. Swiveled upon the ends of this rod at the outer sides of the plates, are arms 24 and loosely connected with these arms are clamping nuts 25 adapted to en-

gage the studs 22. As will be clear, this construction provides an arrangement whereby the nuts may be readily fitted upon the studs or may be swung to a position out of the way, accidental loss of the nuts being prevented. The studs carry a flexible attaching band 26. This band may be formed of leather or other approved material and, adjacent each end, is provided with a series of spaced eyelets 27. The eyelets of each series may be selectively fitted over the respective studs for adjustably connecting the strap with the clamping slide when the nuts 25 may be engaged with the studs for clamping the strap in position thereon.

As will now be readily understood in view of the preceding description, the slide may, when disengaged from the threaded portion of the clamping screw 17, be shifted rearwardly within the bracket arm 13 over the reduced inner end portion of the screw until the slide projects, as shown in Fig. 5, at the rear of the bracket. One end of the attaching band 26 may then be freed from the slide, passed around the support 12 and again connected with the slide. This done, the slide is then shifted forwardly within the bracket arm until the threaded portion of the clamping screw engages within the opening 20 of the slide when, by rotating the screw the slide will, as shown in Fig. 6, be retracted within the bracket arm for firmly clamping the arm upon the support. The bracket may thus be readily applied and in this connection it will be noted that, owing to the length of the attaching strap and its adjustable connection with the clamping slide, the device may be easily engaged with different sized supports. Furthermore, the device may, as shown in the drawings, be connected with a round support or may, with equal facility, be connected with a square or angular support, in which latter event the sides of the base 10 will be fitted around one of the angles of the support.

Removably fitted over the outer end of the bracket arm is a socket holder, shown in detail in Fig. 8 of the drawings. This socket holder includes a rectangular base 28 adapted to slidably fit over the outer end of the bracket arm and having threaded through opposite sides thereof, thumb screws 29 adapted to loosely engage within suitable openings formed in the top and bottom walls of said arm. Hingedly mounted upon the base 28 is a housing cap 30 normally held closed by a suitable catch 31. Formed in the top wall of this cap is a keyhole slot 32 while one side wall of the cap is provided with a slot 33. The cap is open at its lower side. The socket holder is designed to carry an electric light socket and in the drawings I have conventionally shown such a socket at 34, this socket being provided with the usual switch key 35. However, in order to adapt the socket to the present invention a nipple 36 is threaded into the upper end of the socket. This nipple is adapted to extend through the keyhole slot 32 and threaded upon the nipple is a clamping nut 37 detachably connecting the socket with the holder, it being observed that the slot 33 in the holder is positioned to receive the switch key 35 therethrough. Thus the socket will be firmly supported upon the holder to carry an electric lamp as conventionally illustrated at 38.

In view of the foregoing description, it will now be clear that I provide a bracket which may be readily connected to a bedstead or other suitable support for sustaining the lamp 38 in position convenient for reading. Should it be desired to move the lamp about this may readily be done by simply releasing the thumb screws 29 and detaching the socket holder, when the lamp with the holder thereon may be carried from place to place. On the other hand, should it be desired to employ the lamp without the socket holder, the spring catch 31 may be released, the housing cap of the socket holder swung open, the clamping nut 37 released, the threaded nipple 36 dropped through the keyhole slot 32 and the electric wire passed out through the narrow part of said slot when the lamp will be freed. By reversing the operation by which the lamp has been disconnected from the bracket arm, it may as readily be again connected therewith. Furthermore, it is to be noted that since the housing cap of the socket holder is hingedly mounted, access to the head 18 of the clamping screw 17 may be had by simply swinging open said cap. Consequently, the bracket may easily be connected to or disconnected from its support without removing the socket holder or detaching the lamp socket therefrom. In Fig. 2 I have shown the device connected to a horizontal support 12'. When so positioned it will be observed that the socket holder is arranged upon the bracket arm at right angles to the position of the holder shown in Fig. 1. This is necessary in order that the holder may sustain the lamp 38 in vertical position depending from the holder. Accordingly, the side walls of the bracket arm are, as shown in Figs. 5 and 6, provided with oppositely disposed openings for reception of the thumb screws 29 so that after the base of the holder has been fitted over the outer end of the arm, the thumb screws may be engaged through said openings for rigidly connecting the holder with the arm. Consequently, the bracket arm may be connected with either a vertical or horizontal support and the socket holder positioned upon the bracket arm to, in each instance, properly support the lamp.

Having thus described the invention, what is claimed as new is:

1. A lamp bracket including a base, a hollow bracket arm projecting therefrom, a slide shiftable within said arm, studs projecting from the slide, clamping means normally carried by said studs, an attaching band engaged at its ends with the studs and held by said clamping means, means for shifting the slide within the arm for tightening the band about a support, and lamp supporting means carried by the bracket arm.

2. A lamp bracket including a base, a hollow bracket arm projecting therefrom, guide strips within the bracket arm, a slide shiftable within the arm and engaged with said strips, an attaching band connected with the slide, means for shifting the slide within the arm to tighten said band about a support, and lamp supporting means carried by the bracket arm.

3. A lamp bracket including a base, a bracket arm projecting therefrom, means for connecting the bracket with a support, means operable from the outer end of said arm for adjusting said first mentioned means, and lamp supporting means connected with the outer end of the bracket arm and including a housing cap shiftable to expose said last mentioned means.

4. A lamp bracket including a base, a bracket arm projecting therefrom, and a socket holder carried by the arm, said socket holder including a base fitting over the arm at its outer end, and a housing cap swingingly connected to the base and adapted to receive an electric lamp socket.

5. A lamp bracket including a base, a bracket arm projecting therefrom, and a socket holder carried by said arm, said socket holder including a base fitting over the arm at its outer end, means detachably connecting the base with the arm, and a housing cap swingingly connected to the base and formed to receive an electric lamp socket therein.

6. A lamp bracket including a base, a hollow bracket arm projecting therefrom, guide means within the bracket arm, a slide shiftable within the arm and engaged with said guide means, support engaging means connected with said slide, and means for shifting the slide within the arm to tighten the support engaging means about a support.

7. In a lamp bracket, a tubular arm provided at its inner end with angularly disposed portions forming a base, support engaging means disposed between said base portions, and means adjustable upon the arm and connected to the first mentioned means for tightening the first means in engagement with a support.

8. In a lamp bracket, a tubular arm provided at its inner end with angularly disposed portions forming a base, the inner end of the arm being open between said portions, a slide shiftable longitudinally within the arm toward or away from the base, a flexible element connected to the slide through the inner open end of said arm, and means for adjustably shifting the slide and tightening said element about a support.

9. A lamp bracket including a base, a bracket arm projecting therefrom, a housing carried by the bracket arm including a base portion secured to the arm, a housing cap swingingly connected to the base portion normally held closed, and a lamp socket removably fitted within the cap and held against removal therefrom when the cap is closed, the cap being movable to open position for permitting removal of the socket therefrom.

10. A lamp bracket including a base, a hollow bracket arm projecting therefrom, a slide shiftable within the arm, support engaging means connected with the slide, and a clamping screw coacting with the slide having a smooth portion for permitting free movement of the slide longitudinally of the screw and a threaded portion to engage the slide for adjustably shifting the slide within the bracket arm and tightening said means in engagement with a support.

In testimony whereof I affix my signature.

ALEXANDER LORNE McNAUGHTON. [L. S.]