Jan. 27, 1931. C. J. McKEEGAN, JR 1,790,065

HOOK FOR CEILING FANS AND THE LIKE

Filed May 4, 1929 2 Sheets-Sheet 1

Fig. 1.

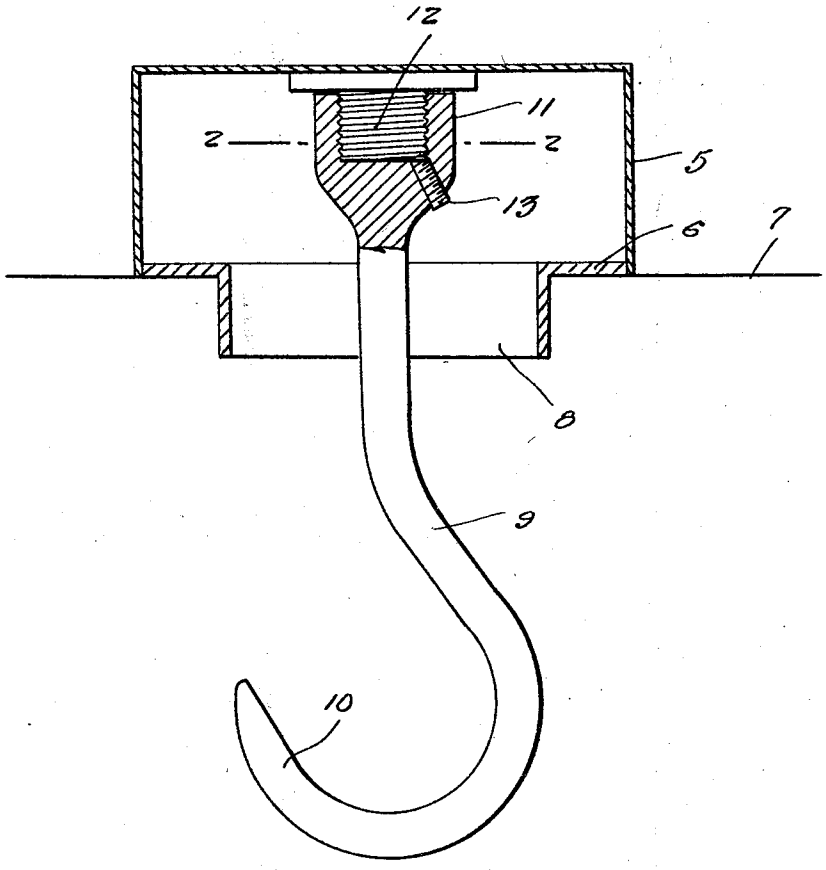
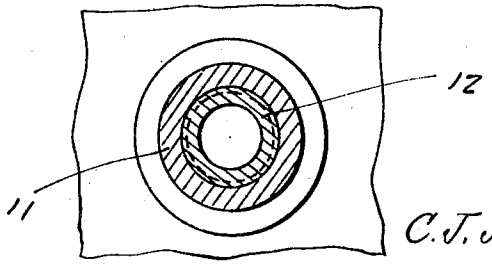


Fig. 2.



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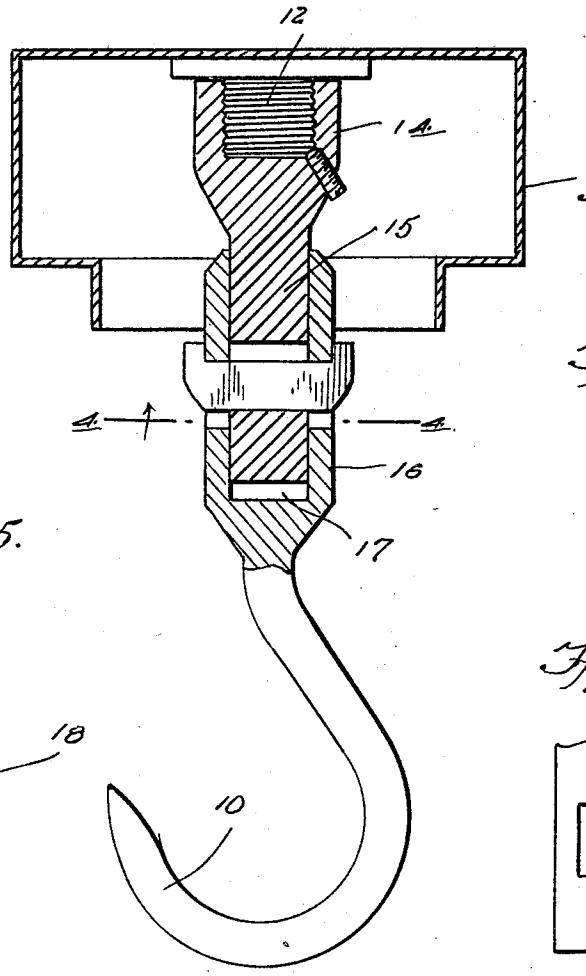


Fig. 3.

Fig. 5.

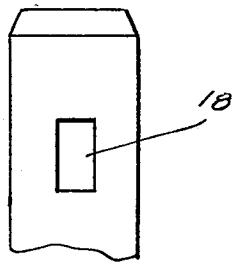


Fig. 6.

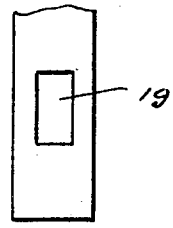


Fig. 4.

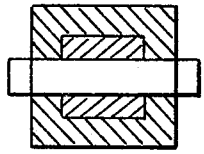
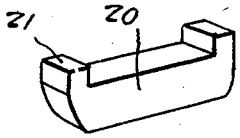


Fig. 7.



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UNITED STATES PATENT OFFICE

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HOOK FOR CEILING FANS AND THE LIKE

Application filed May 4, 1929. Serial No. 360,496.

The present invention relates to devices for suspending an electric fan or similar objects from the ceiling of a room and has for its principal object to provide a hook attachable to the outlet box of the house current by means of which the fan or other objects may be securely suspended.

A further object of the invention is to provide a device of this character which is simple and practical in construction, efficient and reliable in performance, which embodies means for releasably attaching the hook in position to the outlet box, which is strong and compact, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the special construction, combination and arrangement of the various elements forming the invention as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a vertical sectional view through an outlet box and illustrating the manner in which the hook is suspended therefrom,

Figure 2 is a transverse sectional view taken substantially along a line 2—2 of Figure 1,

Figure 3 is a vertical sectional view through the outlet box and illustrating an extension for the hook for use upon relatively high ceilings,

Figure 4 is a transverse sectional view taken along a line 4—4 of Figure 3,

Figure 5 is a fragmentary elevational view of the tubular upper end of the hook showing the opening for receiving the attaching key,

Figure 6 is a similar view of the lower end of the extension member, also provided with an opening for receiving the attaching key, and

Figure 7 is a perspective view of the attaching key.

Referring now to the drawings in detail, for the purpose of illustration I have disclosed the invention for use upon a conventional type of outlet box indicated generally at 5 having a shoulder 6 at its lower edge for supporting the box upon the ceiling structure indicated by the horizontal line shown at 7. The bottom of the box is provided with an opening 8 through which the shank 9 of a hook member 10 is extended.

The hook is adapted for supporting a ceiling fan or the like and has its upper end disposed within the outlet box and formed into an internally threaded socket member 11 for threaded engagement with the fixture 12 secured to the under side of the top of the outlet box.

A retaining screw 13 is threaded through the socket 11 for engaging the stud 12 whereby to prevent accidental displacement of the hook therefrom.

The structure herein above described, is intended for use particularly upon relatively low ceilings, as illustrated in Figures 1 and 2 of the drawings. When it is desired to apply the device upon relatively high ceilings, extension means is provided for the hook, as more clearly illustrated in Figures 3 to 7 inclusive, and comprises an externally threaded socket member 14 for threaded engagement with the fixture stud 12 and from which socket member a shank 15, of square shaped formation in cross section depends. The shank portion of the hook 10 is likewise constructed of a square shaped formation in cross section having a recess 17 formed therein extending vertically for receiving the lower end of the shank 15.

The shank 15 and the hollow shank 16 of the hook, are provided with openings 18 and 19 respectively adapted for registry with each other and extended entirely therethrough and suitable for receiving a key 20 of sufficient length so that its opposite ends protrude outwardly from the opposite side of the opening.

The upper edge of the key, at each end, is formed with upstanding projections 21 adapted to engage the opposite side walls of the hollow shank 16 whereby to prevent accidental movement of the key from the opening.

As more clearly illustrated in Figure 3 of

the drawings, the opening 18 of the hollow shank and the openings of the shank 15, are of sufficient size to permit the free insertion of the key, when said openings are in alined position and the weight of the hook 10 will cause the upper edges of the opening to rest upon the uper edge of the key inwardly of the projections 21 whereby to retain the parts in assembled relation.

It will be apparent from the foregoing that the hook may be easily and quickly attached in position to the fixture studs and will present sufficient strength to safely support a ceiling fan or other objects thereupon.

It is obvious that my invention is susceptible to various changes and modifications in construction without departing from the spirit of the invention or the scope of the appended claim, and I accordingly claim all such forms of the device to which I am entitled.

Having thus described my invention, what I claim as new is:

A ceiling fixture of the class described, comprising in combination, an outlet box having a threaded fixture stud depending from the under side of the top thereof, a hook member having its upper end inserted upwardly in said outlet box and means formed at the upper end of said hook for removably securing the same to said fixture stud, said means comprising a socket member threadedly carried by said stud and having a polygonal shank depending therefrom, said hook having its upper end hollow for slidably receiving said shank, and said shank and said hollow end of the hook having alined transversely extending openings therein, a key insertable through said openings having its ends protruding from the opposite sides of the hollow end of the hook and projections extending upwardly from the key engageable with the opposite sides of the hook whereby to prevent movement of the key transversely of said hook.

In testimony whereof I affix my signature.

CORNELIUS JAMES McKEEGAN, Jr.