

1,145,606.

The drawing consists of seven figures labeled Fig. 1 through Fig. 7. Fig. 1 is a side elevation of a vertical mechanical device. At the top, a pulley (6) is mounted on a horizontal support (5). A rope or cable (2) passes over the pulley and is attached to a vertical shaft (3). The shaft (3) has a central section (7) and a lower section (8). A bellows (10) is attached to the lower section of the shaft. The bellows (10) has a circular, ribbed body and a flared, funnel-like bottom. Fig. 2 is a cross-sectional view of the top pulley assembly, showing the pulley (6) and the support (5). Fig. 3 is a cross-sectional view of the middle shaft assembly, showing the shaft (3) and the central section (7). Fig. 4 is a cross-sectional view of the bottom bellows assembly, showing the bellows (10) and the flared bottom. Fig. 5 is a detail of a hook-like component (21) with a curved end (22). Fig. 6 is a detail of a U-shaped component (17) with a flange (18). Fig. 7 is a cross-sectional view of a rectangular housing (14) with internal components (13, 15, 16, 17, 18, 19, 20, 21, 22).

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UNITED STATES PATENT OFFICE.

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EXTENSIBLE SUPPORT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, WILLIAM H. MEYERS, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Extensible Supports, of which the following is a specification.

The object of this invention is to provide an extensible support for various devices, such for example as a fan, a tool or an electric lamp, so that it can be moved and held out of the way. Devices of this character in which the slack of a cord or electrical conductor has been taken up automatically when the object to which the cord is connected is moved out of the way, have been produced before, but it has not been customary to employ a tubular fixture which is adapted to protect part of the cord when the object is moved into out of the way position, thus reducing the amount of cord the slack take up device must hold and reducing its size.

My invention is designed to accomplish this result in a manner which protects and reduces wear of the cord, reduces the size of the apparatus and is simple in construction, effective in use and inexpensive.

In the accompanying drawing forming part of this specification. Figure 1 is a vertical section of my invention, showing a fan connected to the cord: Fig. 2 is a detail partly broken away and in section showing the slack take up roller upon which the cord is adapted to wind in the canopy; Fig. 3 is a longitudinal section of the roller mounted upon its support; Fig. 4 is an end view of the roller, and Figs. 5 and 6 are end views of the roller illustrating the method of detachably mounting it in its support.

A indicates a canopy made in two vertical halves, one-half 2 being adapted to be secured rigidly to the ceiling or wall and the other half 3 detachably secured to the first half by interlocking pins 4 and openings 5, the former being mounted upon the half 3 of the shell and the latter formed in lugs 6, integral with the half 2. To the lower portion of the half 2 of the shell is secured by soldering or other suitable means a long depending tube B made in longitudinal sections such as 7 and 8 which are adapted to telescope together so that the tube may be adjusted in length whenever desired. The section 7 of the telescopic tube is rigidly

secured to the half 2 of the shell, and the half 3 of the shell is adapted to fit snugly over the upper end of the tube when the canopy is closed. In the upper and lower ends respectively of the sections 7 and 8 are placed bushings 9 and 10 through which a cord C is adapted to run freely, said bushings being shaped with rounded corners to reduce friction and wearing of the cord. To the lower end of this cord is detachably secured by a snap 11 or any other suitable coupling device, a fan 12 or any other device.

The upper end of the cord is adapted to be secured to a take up device such as the spool 13 having a spring 14 attached by one end to the roller to revolve it and by its other end to the shaft 15, suitable clutches 16 of ordinary form being provided on the end of the spool which are adapted to automatically engage the shaft and prevent the spool from revolving when desired. The outer end of the shaft 15 is flattened to engage and prevent turning in a slot 17 in the arm 18 of the support 19 and the opposite end of the spool is provided with a pin or gudgeon 20 which is journaled freely in the opposite arm 21. In effect the spool is adapted to act in the same manner as the ordinary window shade roller, whereby the slack of cord C may be taken up when desired and the cord made to support the fan in superior position or after the cord has been extended the clutches may be made to engage the shaft automatically and hold the spool from turning thus leaving the extended portion of the cord slack and the fan or other object free for use. The arms 18 and 21 may be sprung apart for the purpose of lifting the spool out of engagement therewith, although the arm 21 is formed with a slot 22 in which the pin 20 is seated thus permitting that end of the spool being more readily lifted out of engagement with the arm 21 and the spool removed entirely from its support for assembling the parts or making repairs. The support 19 is secured to the half 2 of the canopy such as by rivets 22.

In use the tube B may be adjusted in length to suit necessary requirements and any device desired may be attached to the free end of the cord. The cord may be an insulated electric conductor and the device on its free end an electric lamp. The fan may be of any construction although I have found one made out of aluminum to be par-

ticularly desirable for use in barber shops where I have found this invention very useful.

In accordance with the patent statutes I have described the principles of operation of my invention together with the apparatus which I now consider to represent the best embodiment thereof but I desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claim.

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

An extensible support comprising a canopy formed of two vertical half sections, one of said sections being secured to a support at its upper end and carrying an elongated tube at its lower end, a series of pins

projecting from the walls of said section, a supporting hanger disposed within said section above said elongated tube and out of vertical alinement therewith, a take-up device rotatably mounted in said hanger, and the other of said sections being provided with a series of apertured lugs adapted to be engaged by said pins for releasably locking said sections together, said releasable section fitting at its lower end snugly about the upper end of said tube, and a flexible cord secured at one end to and adapted to wind about said take-up device, the free end of said cord extending through said tube for attachment to an article.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM H. MEYERS.

Witnesses:

H. L. FISCHER,

S. L. WASCHENBERGER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."