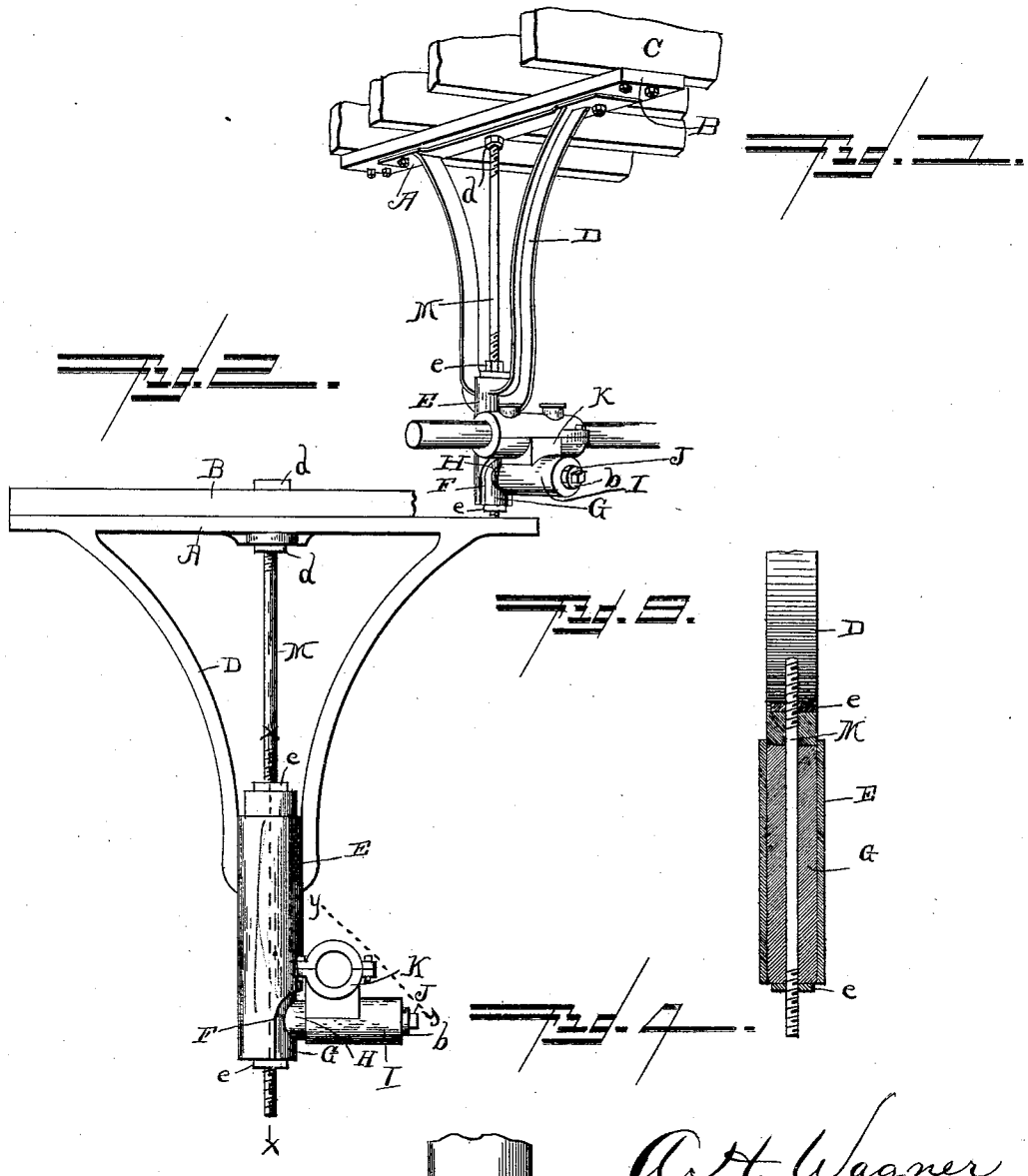
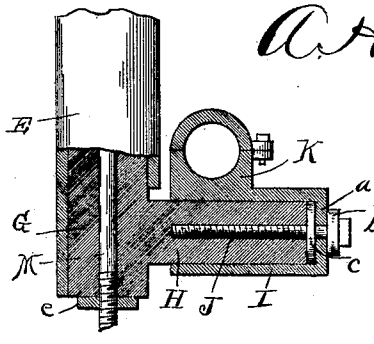
(No Model.)

A. H. WAGNER.

SHAFTING HANGER.

No. 482,287. Patented Sept. 6, 1892.





Witnesses.
C. S. Fryc.
Thomas E. Turpin

A. H. Wagner,
Inventor:
By
W. F. Fitzgerald & Co
Attorneys.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

AUSBERT H. WAGNER, OF CHICAGO, ILLINOIS.

SHAFTING-HANGER.

SPECIFICATION forming part of Letters Patent No. 482,287, dated September 6, 1892.

Application filed December 31, 1891. Serial No. 416,710. (No model.)

To all whom it may concern:

Be it known that I, AUSBERT H. WAGNER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Shafting-Hangers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in shafting-hangers; and it consists in the peculiar construction, certain novel combinations, and the adaptation of parts hereinafter described, and particularly pointed out in the claims appended.

In the accompanying drawings, Figure 1 is a perspective view of my improved hanger in an operative position. Fig. 2 is an enlarged detail side elevation. Fig. 3 is a vertical section taken in the plane indicated by the line *x x* on Fig. 2, and Fig. 4 is a vertical section taken in the plane indicated by the line *y y* on Fig. 2.

Referring by letter to the said drawings, A indicates the top plate of my improved hanger, which is suitably connected by bolts or the like to a beam, as B, which in turn is connected to the lower edge of the joist, as C, or to the ceiling or other suitable part of a room.

Preferably formed integral with the top plate A and depending therefrom are hanger-arms D, which are provided at their lower ends with an integral vertically-disposed sleeve E, in the lower portion of which is formed a slot F, which preferably has its upper end rounded and is designed for a purpose presently to be pointed out.

Taking loosely through the sleeve E is another vertically-disposed sleeve G, which is adjustably fixed with respect to said sleeve E, as will be presently described, and is provided adjacent to its lower end with a lateral interiorly-threaded sleeve H, upon which is loosely mounted a sleeve I, which is provided at its outer end with an annular flange *a*.

Loosely mounted or bearing in the outer end of the sleeve I is a threaded rod J, which extends the full length of said sleeve and is designed to take into the threaded bore of the sleeve H, for a purpose presently disclosed. The rod J is provided at its outer end with a head *b*, which serves, in conjunction with a nut *c*, mounted on the rod upon the inside of the end flange *a*, to prevent longitudinal movement of said rod while the same is being turned. By this construction it will be readily perceived that while the sleeve I is loosely mounted and is free to turn upon the sleeve H it may be laterally adjusted and adjustably fixed with respect to the vertical sleeve G, so as to fix the shafting which is journaled upon the sleeve I at various distances from the said vertical sleeve G. By the provision of the slot F in the lower portion of the sleeve E, through which the lateral branch H of the vertical sleeve G takes, it will be readily perceived that said sleeve G will be prevented from casual rotary movement.

Formed integral with the sleeve I, before described, and extending at right angles thereto is one half of a journal-boxing K, the other half of which is detachably secured in position, so as to permit of the ready placement and removal of a shaft.

Taking loosely through the vertically-disposed sleeve G is a vertical rod M, which is threaded at its ends and at intermediate points in its length for a purpose presently set forth. This rod M, which takes up through the top plate A of the hanger and the beam B, is provided above said beam and below the hanger with nuts *d*, whereby it will be seen that it may be readily adjusted with respect to said beam and top plate.

Mounted upon the rod M, above and below the sleeve G, are nuts *e*, through the medium of which said sleeve may be readily adjusted and adjustably fixed with respect to said rod, whereby it will be seen that the shaft may be fixed at various elevations.

By the construction just described it will be seen that the vertical rod M sustains all the weight of the bearing-box, shaft, &c., and the hanger-arms and sleeve E need be only of sufficient weight and strength to withstand the pull of the belts taking around band-wheels upon the shafts.

From the foregoing description, taken in conjunction with the accompanying drawings, it will be seen that I have provided an exceedingly-light hanger for shafting and one embodying a construction whereby the bearing-box may be adjusted vertically and lat-

erally and is free to turn to accommodate itself to the position of the shaft.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, yet I do not desire to be confined to the same, as such changes or modifications may be made as fairly fall within the scope of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a shafting-hanger, substantially as described, the combination, with the beam B, the top plate connected to said beam, the hanger-arms depending from said top plate, the vertically-disposed sleeve E, carried by said hanger-arms, and the sleeve G, loosely mounted in the sleeve E and carrying a journal-box, of the vertical rod taking up through the sleeve G and through the top plate A and the beam B and having threads at its end and at intermediate points in its length and nuts mounted on said rod, substantially as and for the purpose specified.

2. In a shafting-hanger, the combination, with the sleeve G and the interiorly-threaded sleeve extending laterally from said sleeve G, of the sleeve loosely mounted on the interiorly-threaded sleeve and having an annular flange at its outer end and a threaded rod headed at its outer end and taking loosely through the end of the loosely-mounted sleeve and into the bore of the threaded sleeve, substantially as and for the purpose set forth.

3. In a shafting-hanger, the combination, with the sleeve G, the interiorly-threaded sleeve extending laterally from said sleeve G, and the sleeve loosely mounted on the interiorly-threaded sleeve and having an annular flange at its outer end, of a threaded rod headed at its outer end and taking loosely through the end of the loosely-mounted sleeve and into the bore of the threaded sleeve and a nut or washer mounted on said threaded rod on the inside of the annular flange of the loosely-mounted sleeve, substantially as and for the purpose set forth.

4. In a shafting-hanger, substantially as described, the combination, with the vertically-disposed sleeve E, hung as described and having a slot in its lower portion, the sleeve G, loosely mounted in the sleeve E, and the sleeve extending laterally from the sleeve G and through the slot of the sleeve E and supporting a journal-boxing, of the vertically-disposed threaded rod and nuts mounted on said rod, substantially as and for the purpose set forth.

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

AUSBERT H. WAGNER.

Witnesses:
W. H. BAYLES,
GEO. BANKS.