

(No Model.)

N. D. POOLE.
LEVEL HANGER FOR SHAFTING.

No. 487,427.

Patented Dec. 6, 1892.

Fig. 1.

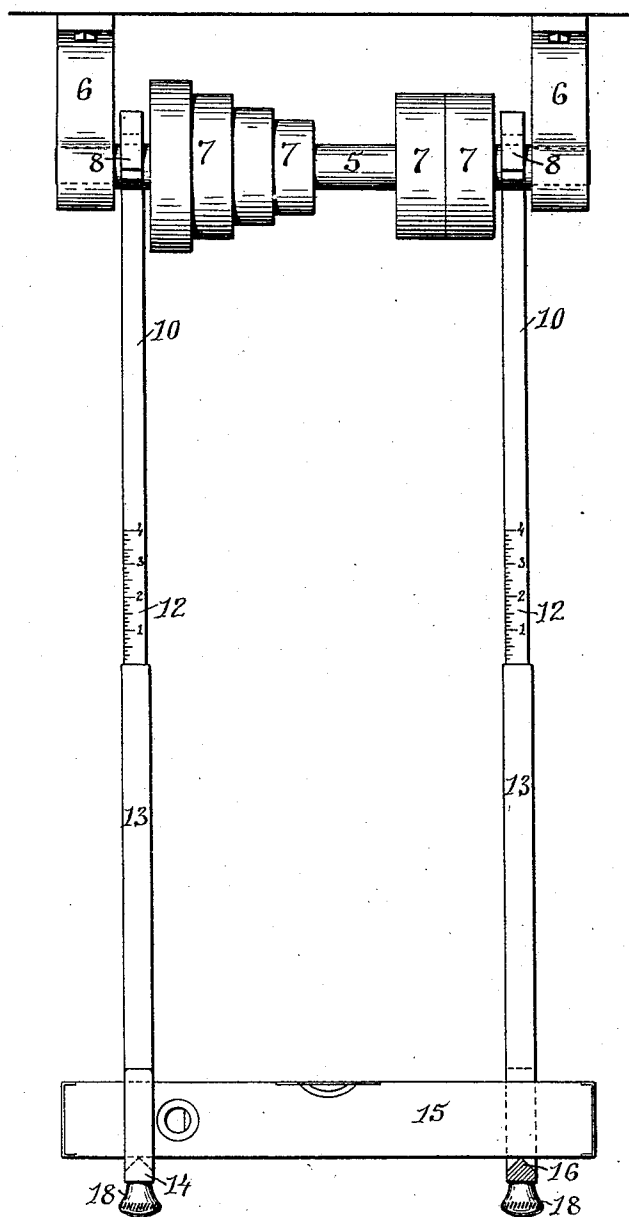
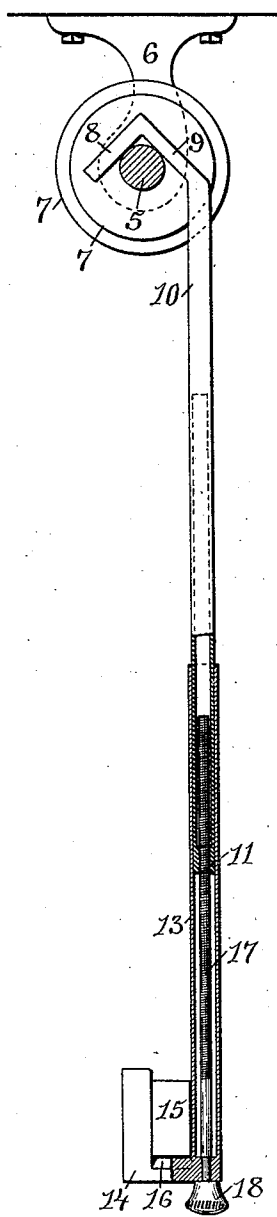


Fig. 2.



WITNESSES:

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NATHANIEL D. POOLE, OF NORTH ATTLEBOROUGH, MASSACHUSETTS.

LEVEL-HANGER FOR SHAFTING.

SPECIFICATION forming part of Letters Patent No. 487,427, dated December 6, 1892.

Application filed July 5, 1892. Serial No. 438,976. (No model.)

To all whom it may concern:

Be it known that I, NATHANIEL D. POOLE, of North Attleborough, in the county of Bristol and State of Massachusetts, have invented certain new and useful Improvements in Level-Hangers; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

This invention has reference to improvements in devices by which levels may be suspended from shafting for the purpose of leveling the same.

The object of the invention is to produce an extensible level-hanger which may be suspended from a shaft when in operation.

The further object of the invention is to produce a level-hanger which when suspended from a shaft and adjusted to bring the level supported thereby in a true horizontal line will indicate the degree at which the plane of the shaft varies from the horizontal.

The further object of the invention is to provide a level-hanger with self-centering means for suspending the same from various-sized shafts and with simple and efficient means for raising or lowering the level carried thereby.

The invention consists in certain peculiar features of construction and novel combination of parts, which will hereinafter be more fully described, and pointed out in the claim.

Figure 1 represents a view of a shaft journaled in hangers, showing the hangers suspended from the shaft and carrying a level. Fig. 2 represents an end view of the same partly in section to more clearly show the construction of the hanger and to indicate the operation of the same.

Similar numbers of reference designate corresponding parts throughout.

In the drawings, 5 indicates a shaft, which is journaled in bearings formed in the lower portions of the hangers 6 6, and on this shaft are secured pulleys 7 7, this shaft being shown to illustrate the operation of the device.

The hanger is formed of two parts, the upper of which is furnished with a suspending device formed by a hook the members 8 and 9 of which extend at right angles with each

other. To the base of the member 9 is secured the depending shank 10, which is hollow for a portion of its length and at the lower end is furnished with a block 11, having a vertical screw-threaded perforation. The shank 10 is generally formed with a cross-section which departs from a circle, being preferably square. The shank may, however, be of any suitable shape and one or more of its faces have a graduated scale 12 marked thereon. The lower portion of the hanger is formed from a vertical tubular member 13, of an interior cross-section corresponding in shape and size to that of the shank 10. At the lower end of this member 13 is provided a hook 14, which is adapted to receive a level 15, the edges of the horizontal portion of the hook being beveled away, so that the level 15 will rest on the central apex 16 of this portion. Rotatably secured in a perforation at the lower end of the member 13 is a screw 17, which engages with the threaded perforation at the lower end of the shank 10 and is operated by the thumb-screw 18 to raise the member 13, carrying one end of the level, over the surface of the shank 10, which slides into the tubular portion of that member.

By the use of the self-centering suspending device formed by the members 8 and 9 the level-hanger may be automatically adjusted to shafts having diameters no greater than the distance between the bases of these members.

The operation of the improved hangers is extremely simple and will be readily understood by reference to the drawings. A pair of hangers having been suspended from the shaft to be leveled and a level 15 placed in the hooks 14, the thumb-screw 18 of one of the hangers is turned to raise or lower the member 13 of that hanger, and with it that end of the level 15, until the level shows itself to be in an exact horizontal plane. The difference in the scale 12 of the hangers is then noted, and this difference will indicate the degree at which the shaft extends from the horizontal plane.

It is obvious that the shank 10 may slide into guides formed on the member 13 instead of sliding into such member without departing from the spirit of my invention.

Having thus described my invention, I

claim as new and desire to secure by Lett e
Patent—

The combination, with the shank 10, having
a hook formed of the members 8 and 9 at its
5 upper end and a tubular lower portion, and a
block 11, secured at the lower end of the shank
and having a threaded perforation, of the
tubular member 13, adapted to receive the
shank 10, a hook 14, formed at the lower end
10 of the member, and a screw 17, having the

head 18 and adapted to engage with the
threaded perforation in the block 11, as and
for the purpose described.

In witness whereof I have hereunto set my
hand.

NATHANIEL D. POOLE.

Witnesses:

JOSEPH A. MILLER, Jr.,

M. F. BLIGH.