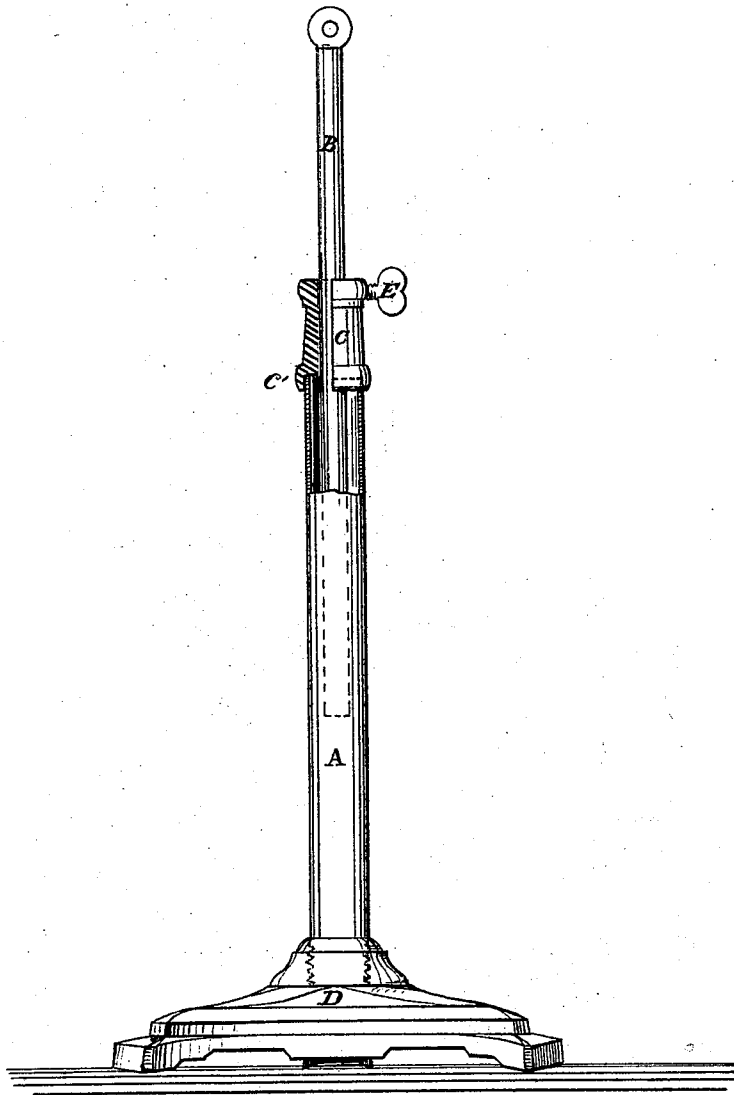


J. J. HAYES.

PHOTOGRAPHIC HEAD-REST STAND.

No. 171,614.

Patented Dec. 28, 1875.



Witnesses

W. E. H. Smith.

John Cox.

John J. Hayes

by Charles H. Smith

Atty.

UNITED STATES PATENT OFFICE.

JOHN J. HAYES, OF GREEN POINT, NEW YORK.

IMPROVEMENT IN PHOTOGRAPHIC HEAD-REST STANDS.

Specification forming part of Letters Patent No. **171,614**, dated December 28, 1875; application filed October 11, 1875.

To all whom it may concern:

Be it known that I, JOHN J. HAYES, of Green Point, Long Island, New York, have invented an Improvement in Stand for Photographic Head-Rest, whereof the following is a specification:

The object of this invention is to cheapen and also to lighten such head-rest stands, so as to render them more portable.

Head-rest stands usually consist of a base in form of a tripod, and a standard made hollow to receive a stem or rod, which is adjustable in such standard at various heights, the head-rests proper being adjustably secured to this rod. Hitherto the standard has been of cast-iron, and made fast to the base by a screw-bolt and nut. This requires a "coring" of the standard, an operation difficult of performance without making such standard unnecessarily large and heavy, and involving also a heavy base to maintain the stand upright. For a proper fitting of the stem thereto the upper extremity of the standard is drilled and reamed out to receive it.

After a number of experiments made with a view of reducing the cost of head-rest stands, running through several years of practical manufacture thereof, I have invented the structure which I will now proceed to describe, referring to the annexed drawings.

First, I make the standard A from a section of thin wrought-iron tubing, and thus secure a high degree of lightness and strength; and, besides, effect a considerable saving in first cost by reducing the weight of iron required in the base to maintain the stand upright. As heretofore made it was impossible to make the standards so light owing to their great liability to fracture in transportation, or by accidentally overturning the stand.

Second, I dispense with the usual screw-bolt and nut, and form a screw-thread directly on the standard at the lower end, which is screwed into an opening formed in the base D, and threaded to match. This is not only cheaper, but enhances the convenience of separating and packing for shipment, both for commercial purposes and for photographers who travel from place to place through the country, as no wrench or other tool is required to take them down or set them up.

Third, to provide for properly holding and securing the adjustable stem B, in connection with a standard made in this way, I apply an additional part or tip, C, of cast or other suitable metal, to the upper extremity of the standard A. The tip is prepared and finished with a cavity, bounded by a rim, *c'*, to surround the top of the standard A, and is preferably affixed thereto by shrinking this rim thereon. It also has a central aperture to take the stem B, and affords the substance requisite to hold the screw-thread for the thumb-screw E for clamping the stem fast at the desired height.

I claim as my invention—

In a photographic head-rest stand, the combination, with a base, D, of the tubular standard A, made of wrought-iron, provided at its lower end with a screw-thread, and at its upper end with a tip, C, of cast or other suitable metal, having a thumb-screw, E, for holding the sliding rod B at different heights, all constructed and arranged substantially as described.

JOHN J. HAYES.

Witnesses:

JOHN L. SNYDER,
JACOB F. HARBERS.