

UNITED STATES PATENT OFFICE.

EDWARD L. CONKEY, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO
CHARLES ALBERT SHAW, OF SAME PLACE.

CENTER-REST FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 285,115, dated September 18, 1883.

Application filed February 26, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWARD L. CONKEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented a certain new and useful Improvement in Center-Rests or Chucks for Lathes, of which the following is a description sufficiently full, clear, and exact, to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front elevation, and Fig. 2 a vertical transverse section taken on the line *x x*, Fig. 1.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates to that class of center-rests which are provided with means for centering or chucking the work; and it consists in a novel construction and arrangement of the parts, as hereinafter more fully set forth and claimed, by which a simpler and more effective device of this character is produced than is now in ordinary use.

The nature and operation of the improvement will be readily understood by the following explanation.

In the drawings, A represents the collar or annular support, and B the bed-piece, these parts being preferably cast integral, or in one piece. A round sleeve, C, provided with the annular flange F, is fitted to work nicely in a corresponding horizontal hole through the collar A, the sleeve being formed with the bearing *d*, and preferably held in position in the collar by the annular plate D and screw-bolts *f f*.

Arranged radially in the flange F there are a series of set-screws, H, preferably four in number, for securing and centering the work, the rest being adjustably attached to the shears

or bed of the lathe by the bolt G, which passes through a hole, *m*, in the bed B, and is secured by the nut *a*, the lower end of the bolt being attached to a clamp or secured in any suitable manner.

In the use of my improvement the shaft, pipe, or other article to be turned, threaded, cut, or otherwise operated on is simply passed through the sleeve and centered by the screws H, the screws being turned in sufficiently to firmly secure the work in the rest. I do not, however, wish to be understood as confining myself to placing the centering-screws in the flange F, as they may be inserted in the plate D, if preferred, and perform substantially the same functions. It will be obvious that when used as a center-rest no "spotting" is required on pieces of irregular shape, and that finished work will not be injured by running in it. It holds the work firmly to the head-stock center of the lathe, and at the same time permits it to revolve as perfectly as when running on the ordinary centers.

The improvement is especially useful for cutting off and threading pipe, cutting off, centering, turning, and finishing up the ends of shafting, fitting up flange-pipe, iron columns, boring lathe-spindles, cutting inside and outside screw-threads, finishing the ends of rollers, &c.

Having thus explained my invention, what I claim is—

In a device substantially such as described, the combination of the collar A, annular plate D, and sleeve C, the sleeve having the bearing *d* and flange F, said flange being provided with means for centering the work, substantially as specified.

EDWARD L. CONKEY.

Witnesses:

H. E. METCALF,
L. J. WHITE.