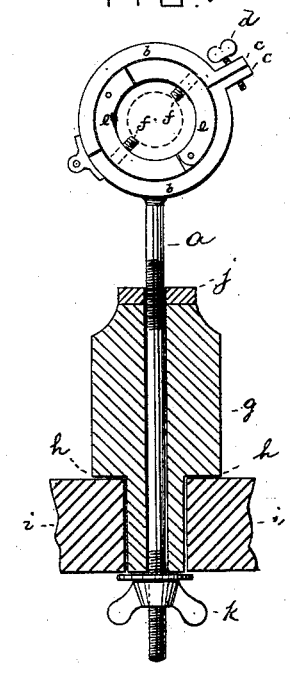
(No Model.)

# E. ZIMMERMANN.

## WORK SUPPORT FOR LATHES.

No. 340,535. Patented Apr. 20, 1886.

FIG. 1



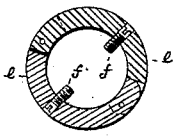




FIG. 2

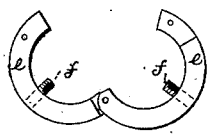



FIG. 3

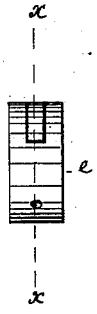



FIG. 5

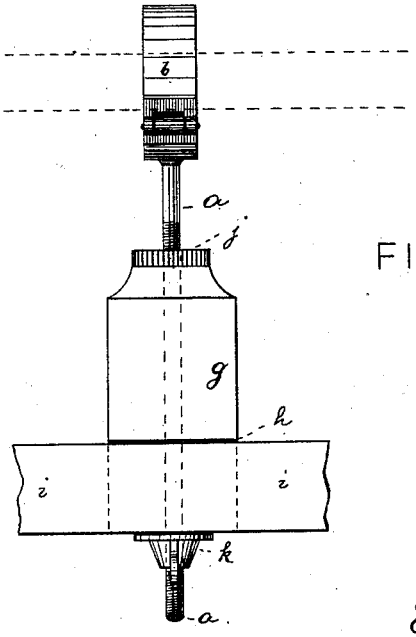



FIG. 4

Witnesses
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# UNITED STATES PATENT OFFICE.

EMIL ZIMMERMANN, OF NEW YORK, N. Y.

## WORK-SUPPORT FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 340,535, dated April 20, 1886.

Application filed February 2, 1886. Serial No. 190,583. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL ZIMMERMANN, of the city of New York, county and State of New York, have invented a new and Improved Work-Support for Lathes, of which the following specification is a full, clear, and exact description.

This invention relates to a rest for supporting the work while being turned in a lathe and preventing the same from sagging. The rest or support is vertically adjustable, and is constructed with a view to permitting the free rotation of the work.

The invention consists in the elements of improvement hereinafter more fully pointed out.

In the drawings, Figure 1 is a sectional side view of my improved work-support for lathes. Fig. 2 is a section through the collar on line *x x*, Fig. 5; Fig. 3, a side view of the collar when open. Fig. 4 is an end view of the work-support for lathes, and Fig. 5 an end view of the collar.

The letter *a* represents an upright post, screw-threaded near its upper and lower ends, and connected at its upper end to a sectional ring, *b*. The two sections of this ring are hinged together at one end, while their free ends are provided with outwardly-projecting lugs *c*, which have screw-threaded perforations for the reception of a thumb screw, *d*, by means of which the sections may be firmly locked together. The ring *b* contains an annular collar, *e*, adapted to turn within ring *b*, and in turn to receive the work. The collar *e* is also made in two sections, so that it may be opened or closed. Each section has two side lugs at one end and a central lug at the other end. The side lugs of one section embrace the central lug of the other section, and by passing a pin through the lugs the sections are properly locked together.

*f f* are headless screws passing through collar *e* and bearing with their inner ends against the work, so that the collar may be clamped to and rotate with the work. There is no tendency of the collar *e* to slip out of ring *b*, and no means for preventing lateral displacement of the collar are therefore shown in the drawings; but, if desired, the collar may be provided with a surrounding annular groove, for the reception of the end of a pin or set-screw passing through the ring. The post *a* is embraced by a block, *g*, which has an offset, *h*, near its lower end, so as to set upon the side pieces or bed, *i*, of the lathe. At its upper end the block *g* has a screw-threaded head, *j*, while a winged nut, *k*, that embraces the lower end of post *a*, bears against the lower end of the block. If the work-support is to be elevated, the post *a* is screwed up and fastened in position by the winged nut *k*. To lower the work-support, the post is screwed down and the nut is then screwed up.

I claim as my invention—

1. The combination of post *a*, carrying sectional ring *b*, with the collar *e*, provided with adjusting-screws *f*, substantially as specified.

2. The combination of screw-threaded post *a*, carrying sectional ring *b*, having lugs *c* and screw *d*, with the collar *e*, having screws *f*, and with the block *g*, that embraces post *a*, substantially as specified.

3. The combination of screw-threaded post *a*, ring *b*, and collar *e*, with the block *g*, having offset *h*, and perforated head *j*, and with the winged nut *k*, substantially as specified.

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Witnesses:
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