

(No Model.)

J. WICHELMANN.
RING MEASURE.

No. 492,566.

Patented Feb. 28, 1893.

Figure 1.

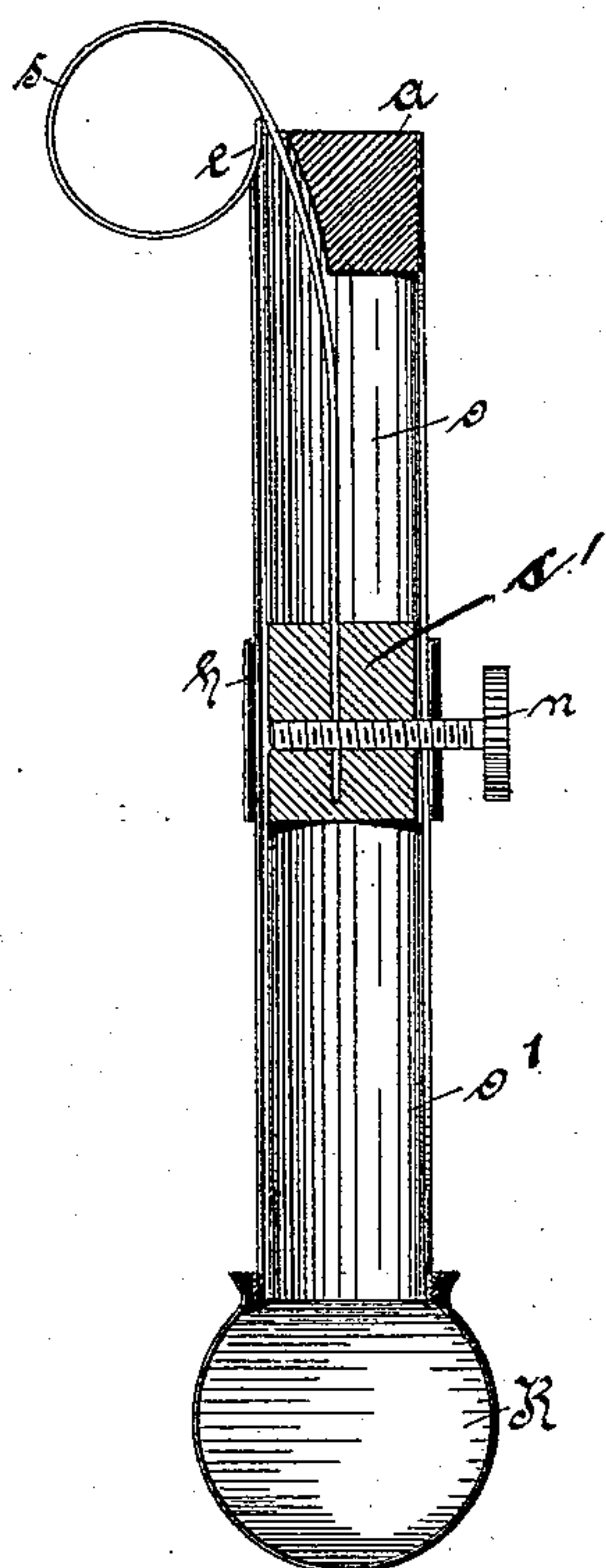
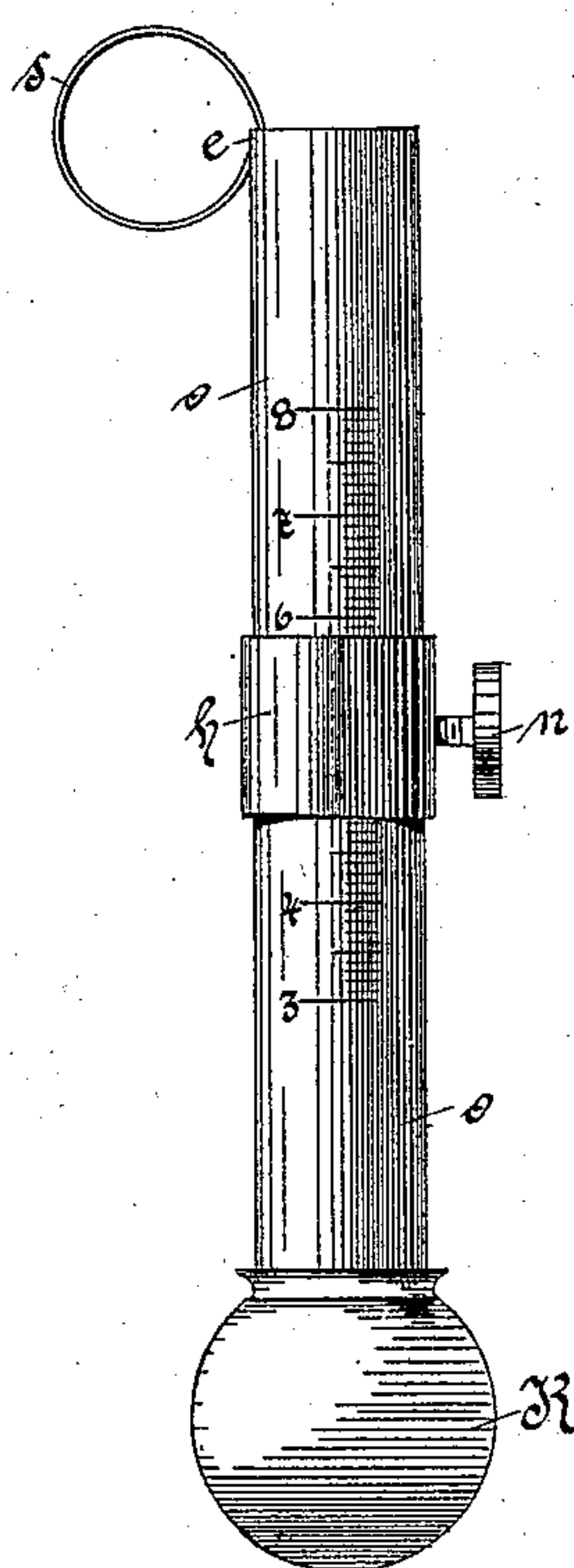


Figure 2.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHANNES WICHELMANN, OF BREMEN, GERMANY.

RING-MEASURE.

SPECIFICATION forming part of Letters Patent No. 492,566, dated February 28, 1893.

Application filed October 20, 1892. Serial No. 449,440. (No model.)

To all whom it may concern:

Be it known that I, JOHANNES WICHELMANN, a subject of the German Emperor, residing at Bremen, in the German Empire, have invented certain new and useful Improvements in Apparatus for Taking Measures for Rings; and I do hereby declare that the following is 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 consists in the novel features of construction hereinafter fully described, reference being had to the accompanying drawings which illustrate one form in which I have contemplated embodying my invention, and said invention is fully disclosed in the following description and claims.

Referring to the said drawings, Figure 1 is a sectional view of my improved ring measure, and Fig. 2 is an elevation of the same.

In the drawings *o* represents the body of the device which is hollow or tubular in form and is provided with a knob or handle *R* at its lower end. To the exterior of the upper end of the tubular body *o* is rigidly secured one end *e* of a ribbon *s* of spring steel or other flexible material which is curved spirally into the form of a ring as shown and has its other end extending down into the interior of the body *o* where it is fastened to a sliding plug, or block *s'*. On the outside of the tubular body *o* is a sliding sleeve *h* connected to the block *s'* by a screw or pin *n* which extends through a slot *o'* in the tubular body *o*. Upon the outside of the tubular body *o* a scale is marked as shown.

The operation of the device is as follows: By moving the sleeve *h* and block *s'* up and down the tube *o* the size of the ring formed by the steel spring or ribbon *s* will be increased or diminished and the scale on the exterior of the tube *o* will be so graduated as to correctly indicate the size of the ring. If desired the screw *n* may be screwed in far enough to engage the inner wall of the tube *o* and clamp the parts in any desired position, thus forming a set screw. The top of tube *o* is preferably provided with a plug *a* partly closing the aperture and forming a guide to prevent the spring *s* from getting out of place

and to keep the spring in engagement with the rigid ends.

What I claim, and desire to secure by Letters Patent, is—

1. A ring measure comprising a main body provided with a graduated scale, a ribbon of elastic material, having one end secured to said body and a movable part connected with the other end of said ribbon and adapted to move adjacent to said scale, substantially as described.

2. A ring measure comprising a tubular body provided with a graduated scale, an elastic flexible ribbon, having one end secured to said tubular body, a sleeve sliding upon said tubular body and connected with the other end of said ribbon, substantially as described.

3. A ring measure comprising a tubular body provided with a graduated scale, a steel spring ribbon having one end secured to said tubular body and connected with the other end of said ribbon and a set screw for securing said sleeve rigidly with respect to said tubular body, substantially as described.

4. A ring measure comprising a tubular body provided on its exterior with a graduated scale, a steel spring ribbon having one end secured to said tubular body, a sliding block engaging the interior and a sliding sleeve engaging the exterior of said tubular body and a set screw extending through a slot in said tubular body and connecting the said sleeve, said block and the other end of said ribbon together, substantially as described.

5. A ring measure comprising a tubular body provided with a graduated scale, a steel spring ribbon having one end secured to the said tubular body, a sliding sleeve engaging said tubular body and secured to the other end of the said ribbon, and a guide secured to the tubular body, adjacent to the point of engagement of the end of said ribbon therewith, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

JOHANNES WICHELMANN.

Witnesses:

MAX WALCKER,
JOHN H. SCHNABEL.