

No. 756,352.

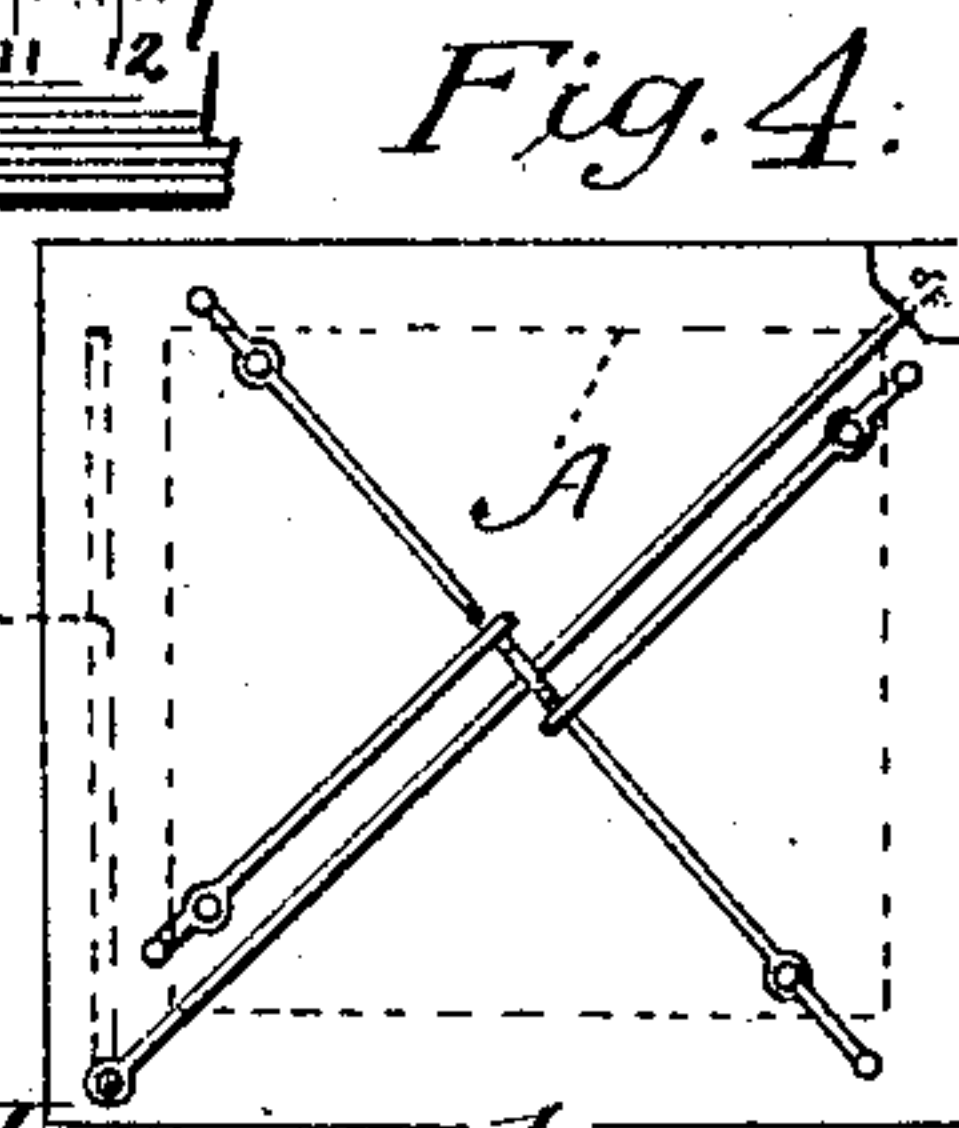
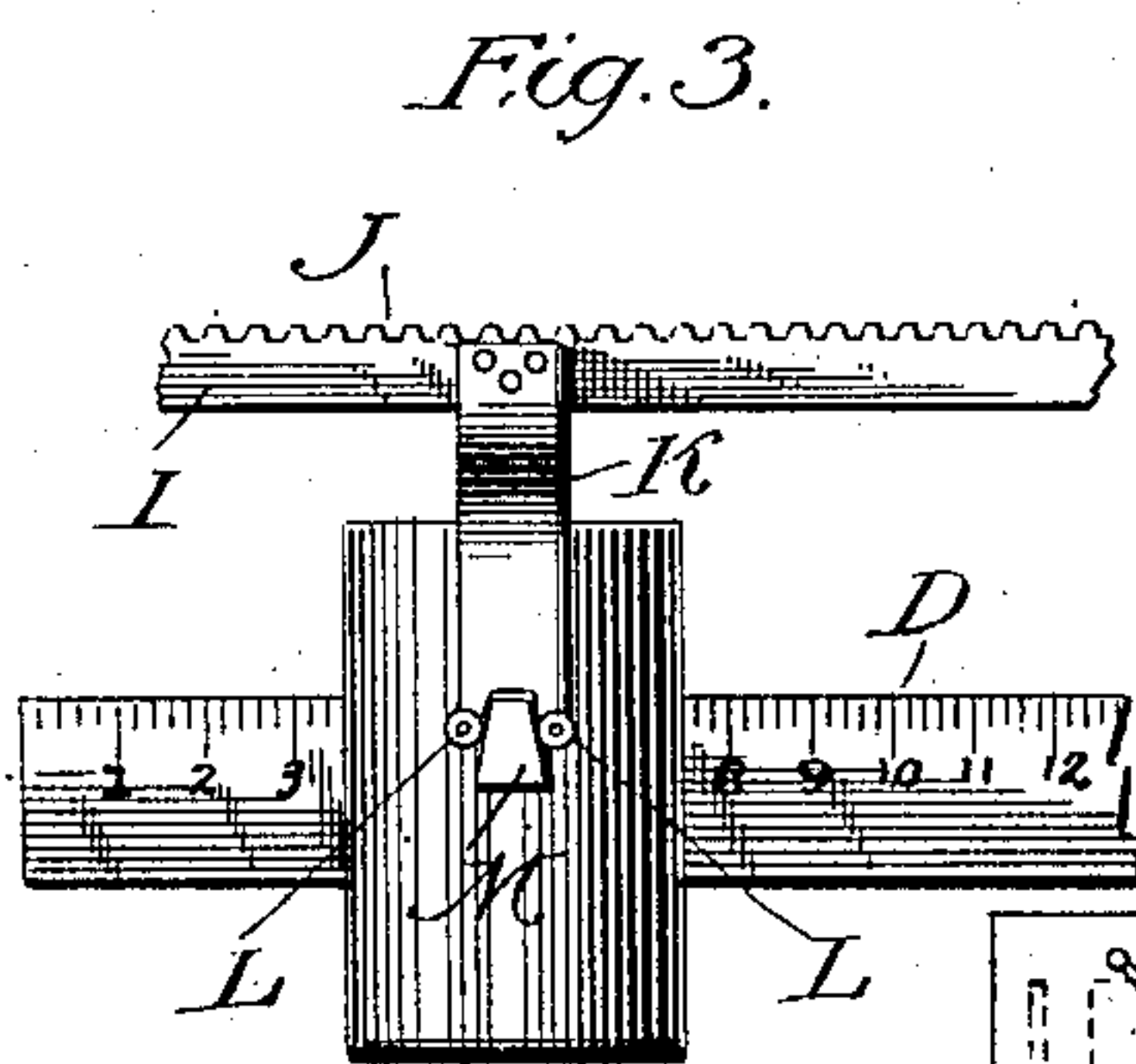
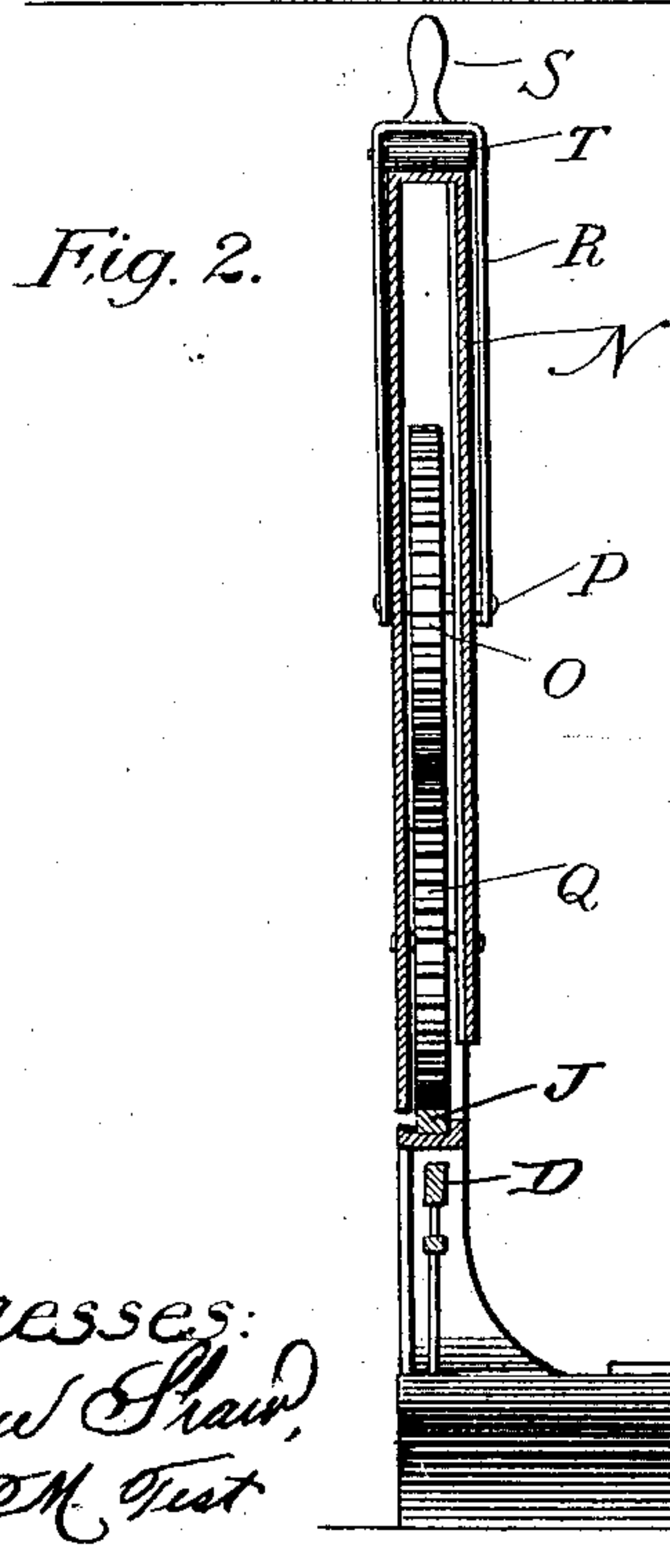
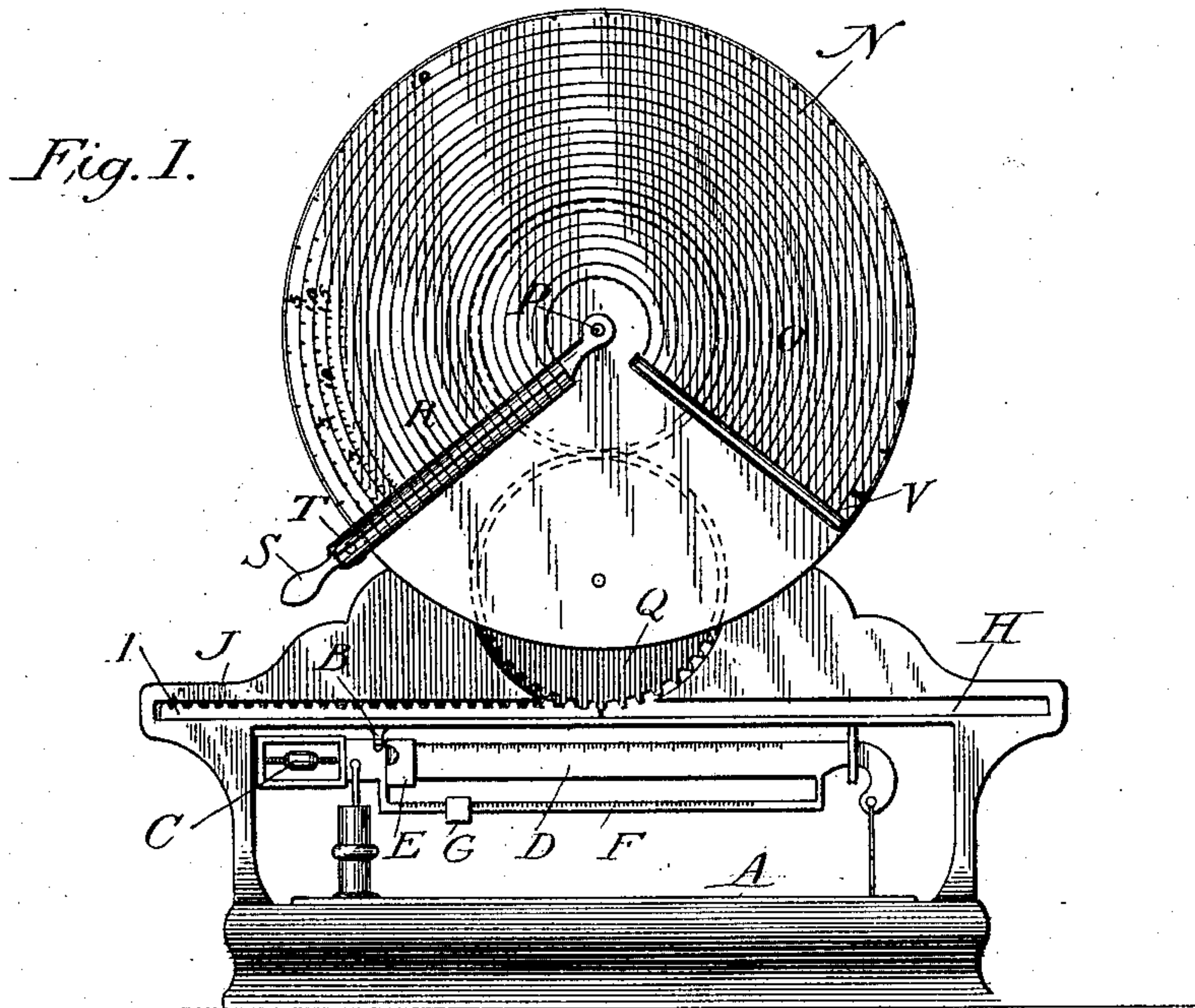
PATENTED APR. 5, 1904.

W. GERHARDT.
COMPUTING SCALE.

APPLICATION FILED APR. 13, 1901.

NO MODEL.

2 SHEETS—SHEET 1.



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2 SHEETS—SHEET 2.

Fig. 5.

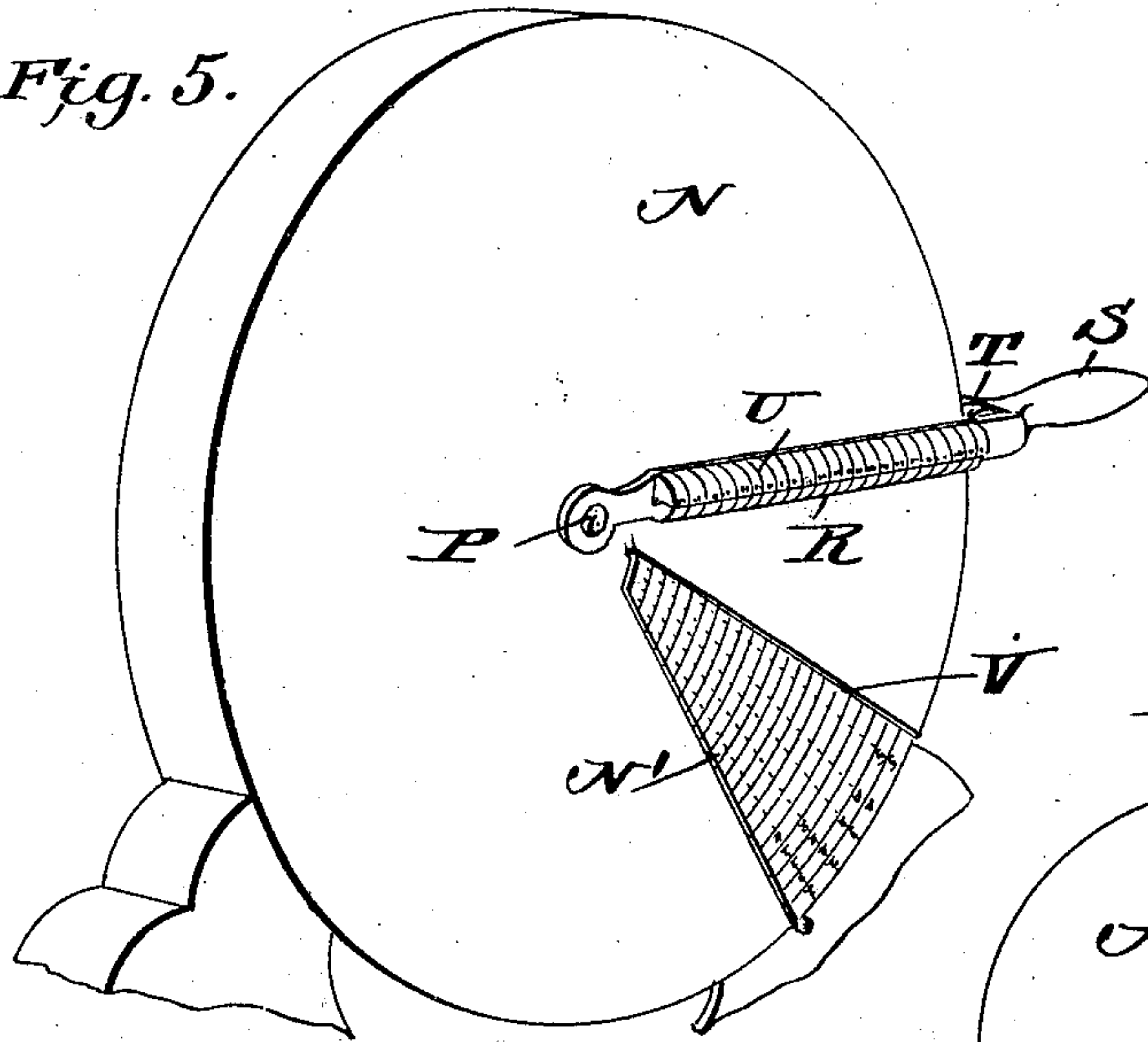


Fig. 10

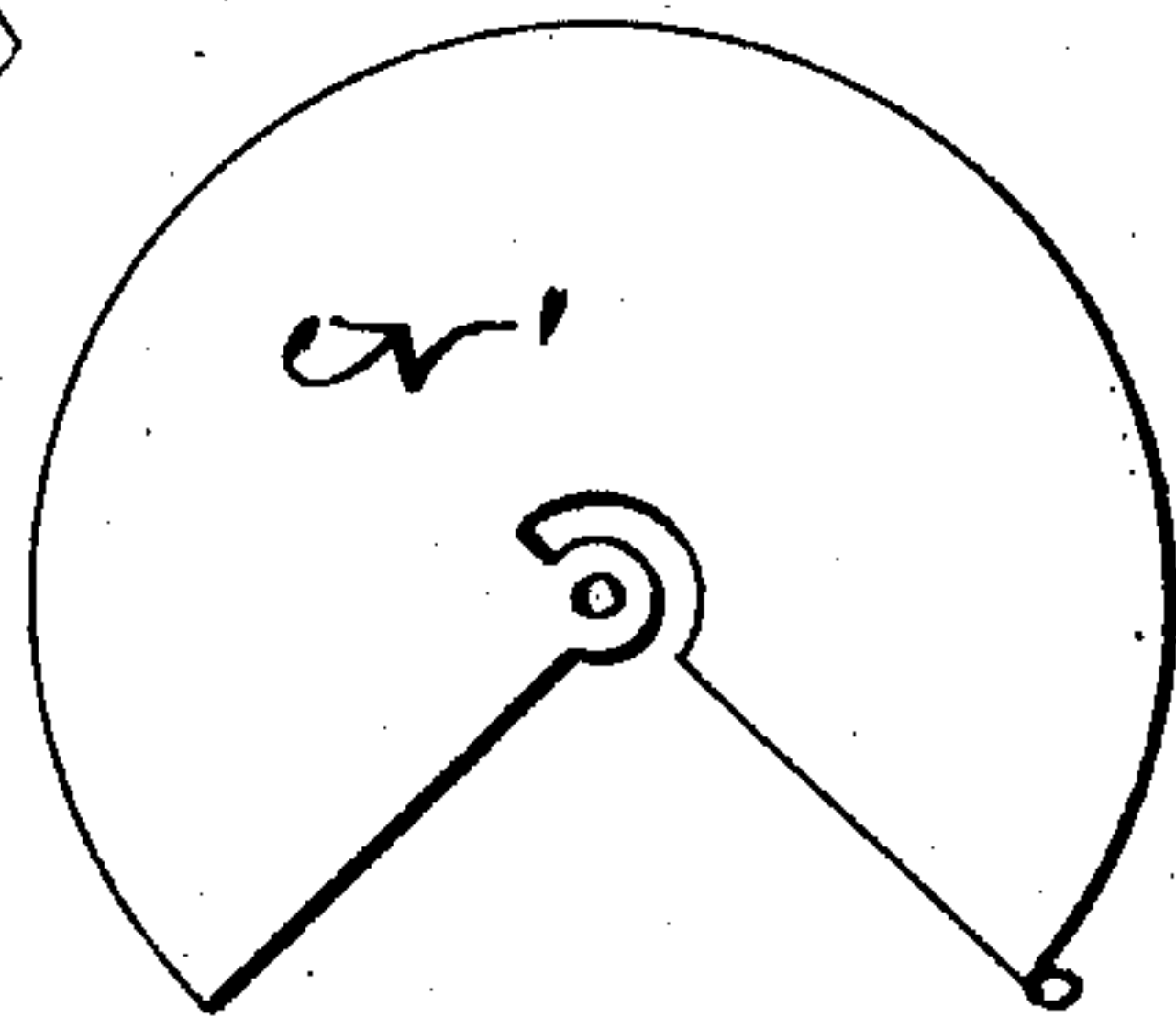


Fig. 6.

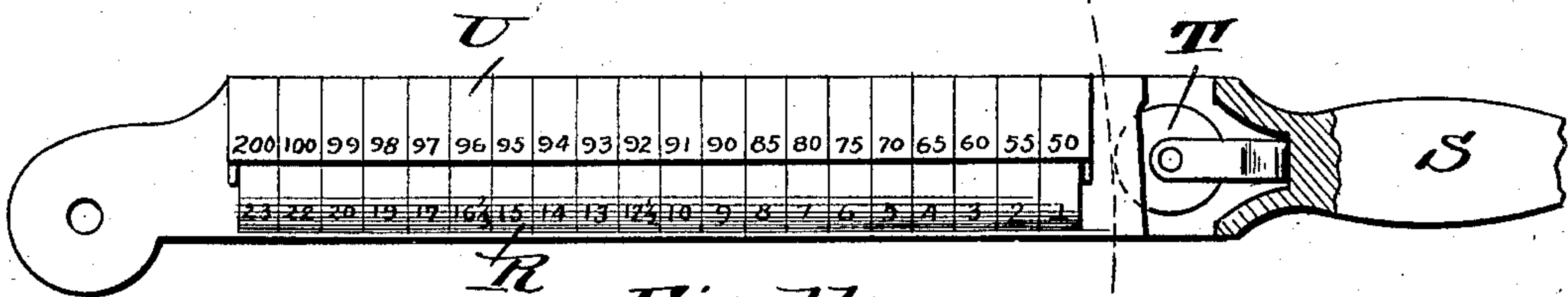


Fig. 11.

Fig. 7.

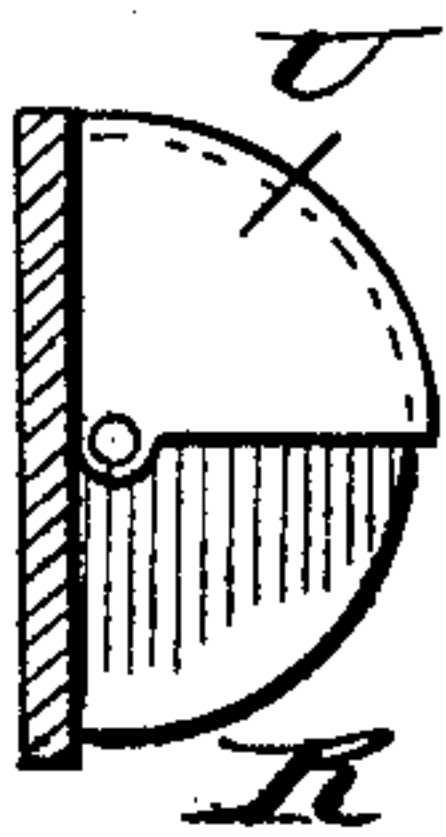


Fig. 8.

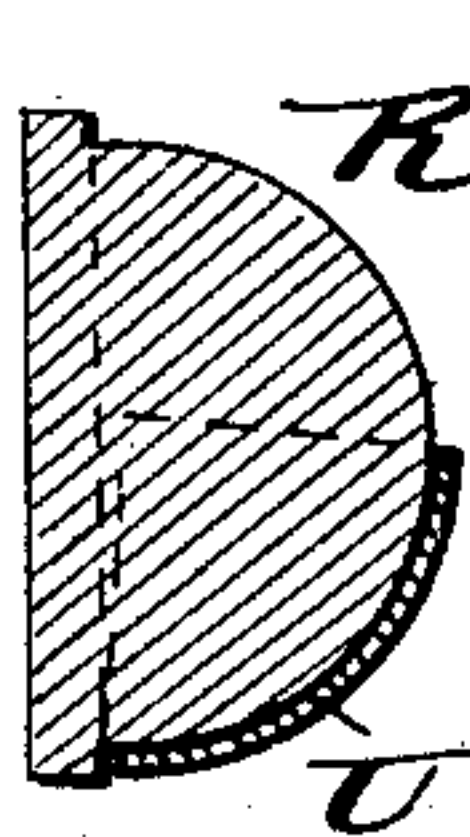
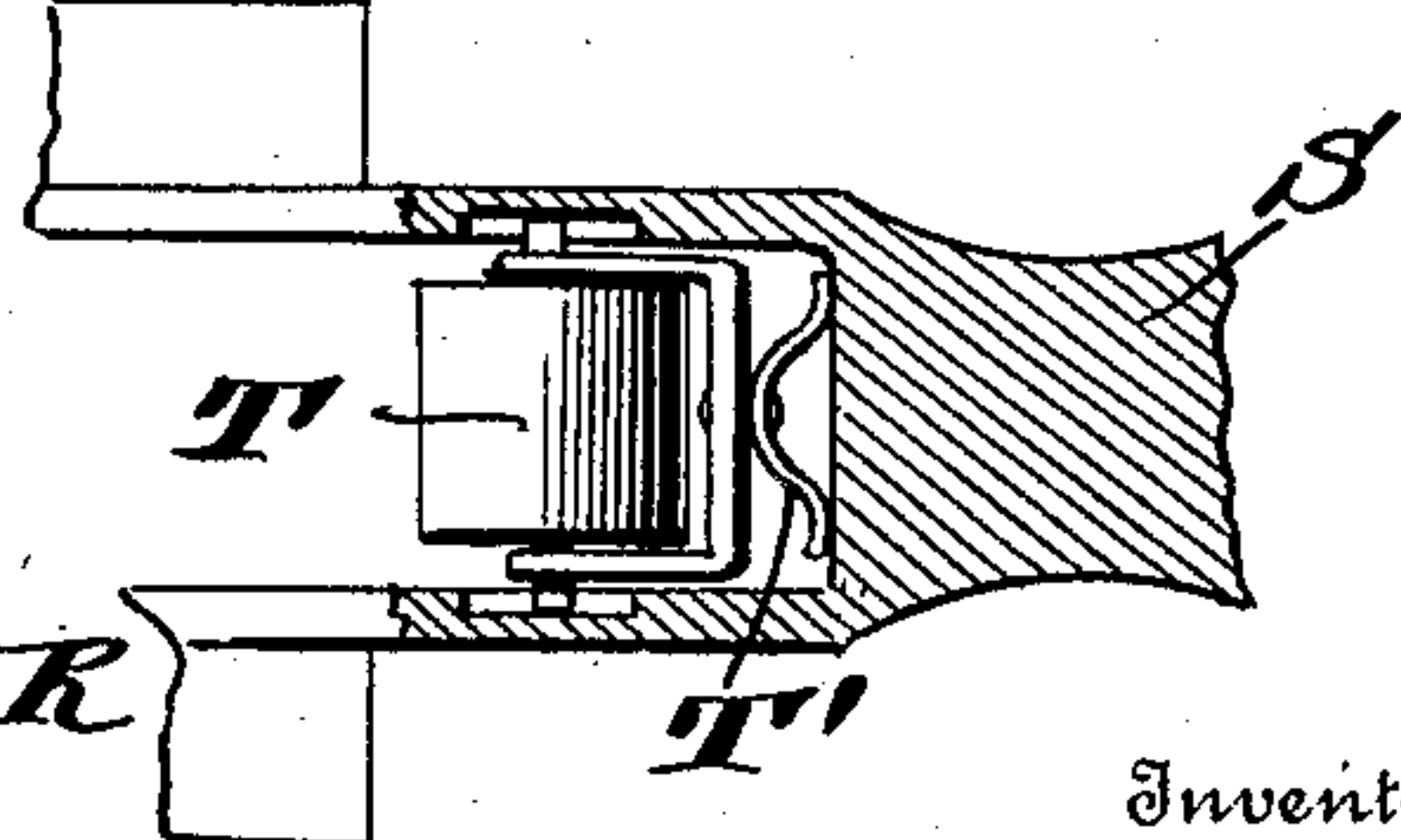


Fig. 9.



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UNITED STATES PATENT OFFICE.

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COMPUTING-SCALE.

SPECIFICATION forming part of Letters Patent No. 756,352, dated April 5, 1904.

Application filed April 13, 1901. Serial No. 55,753. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GERHARDT, a citizen of the United States, residing at Brunswick, in the county of Chariton and State of Missouri, have invented a new and useful Computing-Scale, of which the following is a specification.

This invention relates to improvements in computing-scales; and the object is to provide a simple construction for indicating the weight of an article and the total selling price thereof at different prices per pound.

With the above object in view the invention consists in the novel features of construction hereinafter fully described, particularly pointed out in the claims, and clearly illustrated by the accompanying drawings, in which—

Figure 1 is a front elevation of a platform or beam scale having my invention applied thereto, the scale on the disk being removed; Fig. 2, a vertical sectional view through the same; Fig. 3, a detail view of the connection between the weight-poise and the slide for moving the same upon the scale-beam, and Fig. 4 a diagrammatic view illustrating the platform-rigging. Fig. 5 is a detail perspective view of the casing, disk, and indicator-arm. Fig. 6 is an enlarged face view of the arm. Fig. 7 is an end view of same. Fig. 8 is a section through the indicator-arm. Fig. 9 is a detail view, partly in section, of the arm-handle, showing in elevation the spring-pressed roller. Fig. 10 is a plan view of the auxiliary dial detached from the casing. Fig. 11 is a transverse section through the slide and track, the depending arm and the lower portion of one of the gear-wheels being in elevation.

I have shown my invention in connection with what is known as a "beam-scale," and in the drawings A designates the platform; B, the beam, provided with the adjusting-poise C; D, one member of the scale-beam, upon which the weight-poise E is movable, and F the other member of the scale-beam, upon which the tare-poise G is movable.

Supported above the scale-beam is a track H, upon which a slide I is movable, said slide having upon its upper surface a rack J and provided upon its rear side with a depending

arm K, having its lower end bifurcated or slotted and carrying friction-rollers L. The forks of this bifurcated arm receive between them a lug M, formed on the weight-poise, so that as said slide is moved back and forth upon the track said poise is correspondingly moved upon the scale-beam, but at the same time is permitted to freely move up and down with the beam when the latter swings upon its pivot, the friction of this movement being decreased by the friction-rollers L.

Supported above the track is a cylindrical casing N, the front face of which is provided with figures representing the different prices per pound and fraction of a pound, ranging from one cent to fifty cents per pound. Centrally mounted in said casing is a gear-wheel O, which is rigidly secured to a shaft P, the ends of which project to the exterior of both faces of the casing. This gear meshes with a second gear Q, mounted in the casing therebeneath and projecting through a slot in the bottom of the casing to mesh with the rack of the slide.

R designates a forked arm or lever having at its outer end a handle portion S and having its legs straddling the casing and secured at their ends to the projecting ends of shaft P. This lever carries a spring-pressed roller T, which engages the periphery of the casing and moves thereon as the lever is swung upon its pivot and serves to offer a slight resistance to the movement of the lever, so as to prevent the latter from moving too freely. The spring T has its free ends pressing against the handle, and its central portion holds the roller against the casing. When this lever is swung upon its pivot, gear O is rotated, rotating gear Q and effecting the movement of the slide and the weight-poise. Said lever upon its front face is formed substantially semicircular in cross-section, and upon one of its longitudinal edges is a scale containing prices per pound from one to twenty-three cents. Pivoted to said lever is a concaved plate U, which in its normal position covers the opposite half of the lever to that upon which the prices from one to twenty-three cents per pound are arranged. Said plate is adapted to be swung upon its pivots to cover the scale of the lever

and has also marked thereon a scale of prices ranging from fifty-five cents to one hundred cents or two dollars per pound. This constitutes an auxiliary scale to coact with an auxiliary dial N', which is normally concealed in the casing, but is moved therefrom through a slot V in the front face thereof when desired for use. This auxiliary dial is pivoted upon the shaft P and moves in guides provided therefor on the inner face of the front wall of the casing and contains the total price for articles valued at from fifty cents to one dollar per pound. Thus when it is desired to weigh an article valued at fifty cents and under per pound the main dial and scale are used; but when it is desired to weigh an article valued at more than fifty cents per pound the auxiliary dial is drawn out from the interior of the casing to cover the main dial, and the swinging auxiliary scale is moved to cover the main scale of the operating-lever.

The operation of the invention is as follows: An article to be weighed is placed upon the platform of the scales and the lever swung upon its pivot until the weight-poise has been moved a sufficient distance upon the scale-beam to balance the article being weighed. The total value of said article is then ascertained by glancing at the figure in the series upon the dial which is opposite to the figure upon the lever indicating the selling price per pound.

From the above description it will be seen that I have produced a very simple construction of computing-scale which may be quickly and readily operated to weigh an article and at the same time to indicate the value of the same at a given price per pound.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a computing-scale, the combination with the scale-beam and the weight-poise movable thereon, of a track supported above the scale-beam, a slide movable upon said track and having an operative connection with said weight-poise and formed with a rack, a cylindrical casing mounted above said slide and provided with a computing-dial, a gear mounted in said casing, a bifurcated lever straddling the said casing and having its legs secured to the shaft of said gear and provided with a handle and with figures coacting with the figures upon said dial, and a gear mounted in the casing and meshing with the first-mentioned gear and with the rack, substantially as described.

2. In a computing-scale, the combination with the scale-beam and the weight-poise movable thereon, of a main dial, an auxiliary dial sliding thereon, and normally concealed from view, an indicator movable upon said dial and carrying figures upon one edge thereof coact-

ing with the main dial, a swinging plate carried by said lever and provided with figures adapted to coact with the figures of the auxiliary dial, and an operative connection between said indicator and said weight-poise whereby the movement of one effects the movement of the other, substantially as described.

3. In a computing-scale, the combination with the scale-beam and the weight-poise movable thereon, of a track or way supported above the scale, a slide movable upon said track or way and having a bifurcated arm attached thereto and engaging said weight-poise, and a rack, a cylindrical casing provided with a computing-dial, a gear mounted in said casing, a lever secured to the shaft of said gear, crossing said dial-face, and provided with a handle, and with figures coacting with the figures upon said dial, and a gear mounted in the casing and meshing with the first-mentioned gear, and with the rack, substantially as described.

4. In a computing-scale, the combination with the scale-beam and the weight-poise movable thereon, of a main dial, an auxiliary dial sliding therein and normally concealed from view, an indicator movable upon said dial and carrying figures upon one edge thereof coacting with the main dial, a swinging plate carried by said lever and provided with figures adapted to coact with the figures of the auxiliary dial, a gear mounted on the shaft of said indicator-lever, and sliding bar adjacent said scale-beam carrying a rack and an arm engaging said weight-poise, and a gear between said first-named gear and the rack, substantially as described.

5. In a computing-scale, the combination with the scale-beam, and the weight-poise movable thereon, provided with a lug, a track or way adjacent said scale-beam, a slide movable upon said track or way, having a rack, and a bifurcated arm with antifriction devices on the bifurcations, engaging the lug on said weight-poise, a cylindrical casing provided with a main computing-dial, an auxiliary computing-dial normally concealed by said main dial, a bifurcated lever straddling said casing, pivoted thereto and having figures along one edge thereof coacting with those in the main dial, a slidable plate on said lever carrying figures adapted to coact with those on said auxiliary dial, and a handle, a gear-wheel pivoted to the shaft of said lever and another gear-wheel meshing with said gear-wheel and the rack on said slide, substantially as described.

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