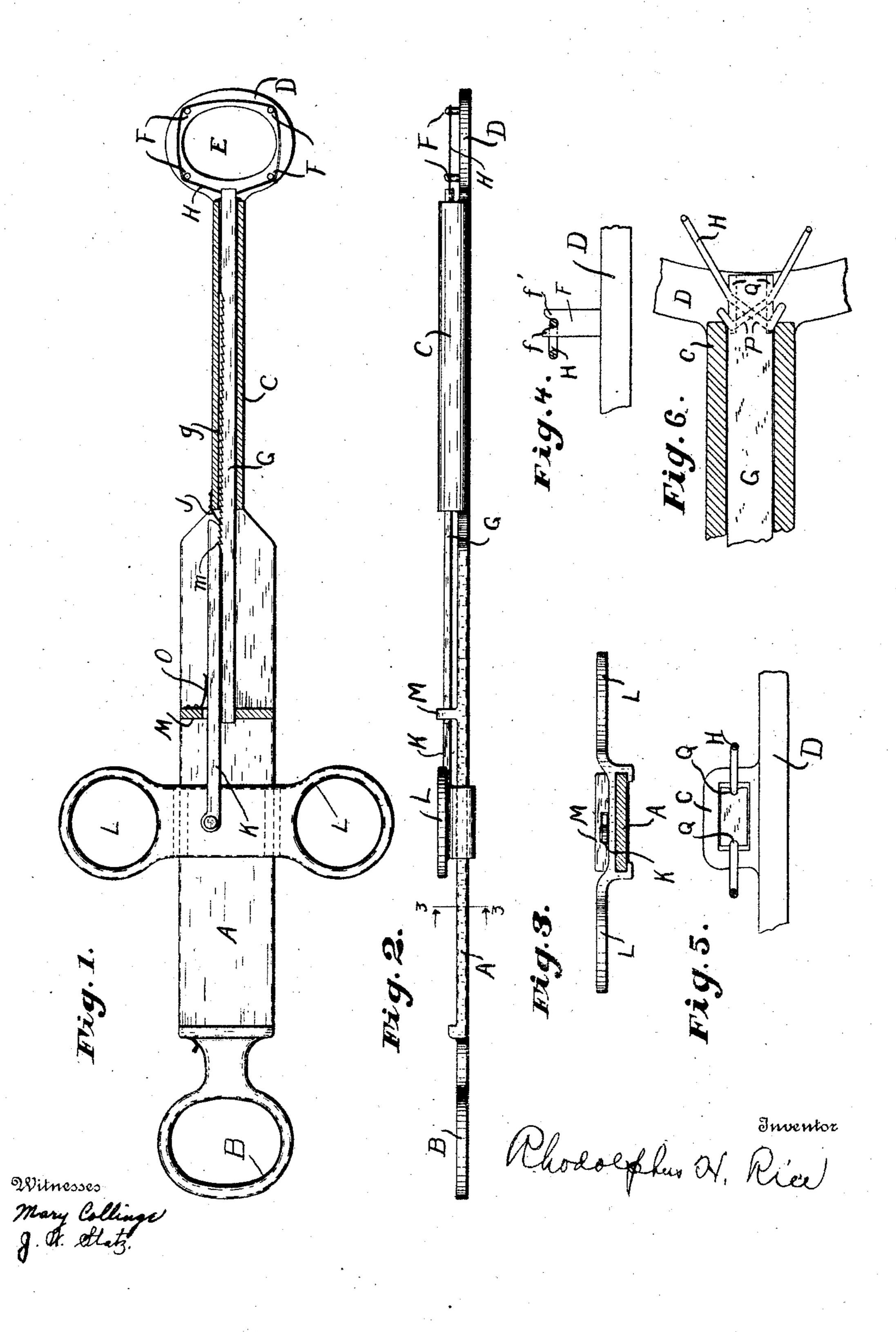
R. H. RICE.
TONSILOTOME.
APPLICATION FILED JULY 6, 1908.

907,090.

Patented Dec. 15, 1908.



THE NORRIS PETERS CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

RHODOLPHUS H. RICE, OF MILWAUKEE, WISCONSIN, ASSIGNOR TO MICHAEL J. RICE, OF KEWAUNEE, WISCONSIN.

TONSILOTOME.

No. 907,090.

Specification of Letters Patent.

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a citizen of the United States, residing at Milwaukee, in the county of Milwaukee and 5 State of Wisconsin, have invented a new and useful Improvement in Tonsilotomes, of which the following is a specification.

surgical instruments, designed especially for 10 the removal of enlarged or diseased tonsils,

adenoids, etc.

The object of my invention is to provide means whereby the part to be removed may be first gripped by an encircling band, such 15 as fine wire, and either cut through by drawing in on the wire, or the diseased growth pulled off, as desired by the surgeon.

In the following description, reference is had to the accompanying drawings in

20 which—

Figure 1 is a plan view, part in section, of a surgical instrument embodying my invention. Fig. 2 is an edge view of the instrument. Fig. 3 is a sectional view (major sec-25 tion) drawn on line 3—3 of Fig. 2. Fig. 4 is a detail view of one of the wire supporting pins. Fig. 5 is an enlarged end view of the draw bar, showing the wire connections in cross section. Fig. 6 is an enlarged detail 30 plan view of the end portion of the draw bar, showing the ends of the wire, with dotted lines indicating their position when partially folded.

Like parts are identified by the same refer-35 ence characters throughout the several views.

A supporting member A is preferably provided with a handle B at one end, and at the other end with a tubular or channeled portion C constituting a narrow extension of the hold-40 ing member, terminating in a flat, round or oval shaped member D, which is provided with an opening E through which the tonsil, or part to be removed, is caused to project. A series of pins F extend outwardly from one surface of the member D, and a draw bar G, slidingly mounted in the channeled portion C, extends over said surface, and is connected with a band of fine wire H, which is primarily passed around the pins and is thus held in a position 50 to encircle a tonsil projecting through the aperture. The outer surfaces of the pins may be beveled or inclined inwardly, as shown in Fig. 2, or forked and provided with a tapering inner arm f as shown in Fig. 4, the arm f' of 55 the fork preventing the wire from moving

To all whom it may concern: downwardly to the base of the pin. In Be it known that I, Rhodolphus H. Rice, either case, the construction is such that by drawing forcibly upon the bar G, the wire may be withdrawn from the pins. The bar G is provided with a series of teeth g along 60one side, and a resilient catch J engages these teeth and holds the bar from moving toward My invention relates to improvements in the outer end of the tool. An actuating bar K, provided with a handle L, extends through a guide bearing M on the supporting 35 member, and is provided with teeth madapted to engage the teeth g on the draw bar. O is a spring to facilitate holding the bars together, while permitting them to separate when securing new adjustments.

In operation, the wire is first passed around the pins and the ends inserted through diagonal holes at P in the draw bar. The apertured member D is then adjusted over the tonsil and the latter arranged in a position 75 projecting through the aperture. The handle L is then drawn backwardly until the wire slips from the pins, the ends of the wire being bent backwardly during the initial movement by contact with the portion C, 80 and doubled into channels Q in the sides of the draw bar, thus locking the wire to the bar. The tonsil having been gripped by the wire, the handle L is moved outwardly along the support until the outer end of the actuat- 85 ing bar K approaches the part C, where it reengages the teeth on the draw bar G, when by drawing backwardly upon the handle L, the wire cuts through the tonsil. Where an adenoid is to be removed, it may be engaged 90 by the wire and by pulling backwardly upon the support, it can be wholly torn away.

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

1. In a device of the described class, the combination of a supporting member, an apertured member connected with one end thereof, a guide on the supporting member, a draw bar extending through the guide to the 100 apertured member and retaining devices on the apertured member arranged to hold a piece of wire in a position encircling the aperture, the ends of said wire being connected with the draw bar,—together with a mov- 105 able handle and an actuating bar connected therewith and adapted to engage the draw bar in various positions of adjustment.

2. In a device of the described class, the combination of a holding member provided 110 with a narrow extension, having a guide way extending longitudinally thereof, a flat member provided with an aperture therein and connected with the outer end of said extension, a set of pins projecting from said apertured member and having inwardly inclined faces, a draw bar mounted in said guide way, a wire connected with said draw bar at both ends and extended around said pins in a manner to encircle said aperture, means for actuating said draw bar, and a catch to prevent retractive movements thereof.

3. In a device of the described class, the combination of an apertured member, means for retaining a wire in a position encircling the aperture in said member, a support for said apertured member and a device movably connected with the support and adapted to engage and draw the wire from said retaining means across said aperture, said retaining means comprising a set of pins, each provided with a forked extremity, adapted to receive the wire, the inner arm of the fork being provided with an angular face adapted

to release the wire when the latter is sub- 25 jected to the desired tension.

4. In a device of the described class, the combination of an apertured member, wire retaining devices mounted thereon, a wire supported by said devices in a position en- 30 circling said aperture, a supporting member, and a draw bar mounted on said supporting member provided with perforations in one extremity, through which the ends of the wire pass, said draw bar being provided with 35 channels in its side margin at the perforated end and said supporting member being provided with guides for the draw bar, a dapted to engage the wire and bend it into said channels, when the draw bar is retracted,—the re- 40 taining devices being adapted to release the wire during the retractive movement.

In testimony whereof I affix my signature

in the presence of two witnesses.

RHODOLPHUS H. RICE.

Witnesses:

F. A. Otto, Mary Collinge.