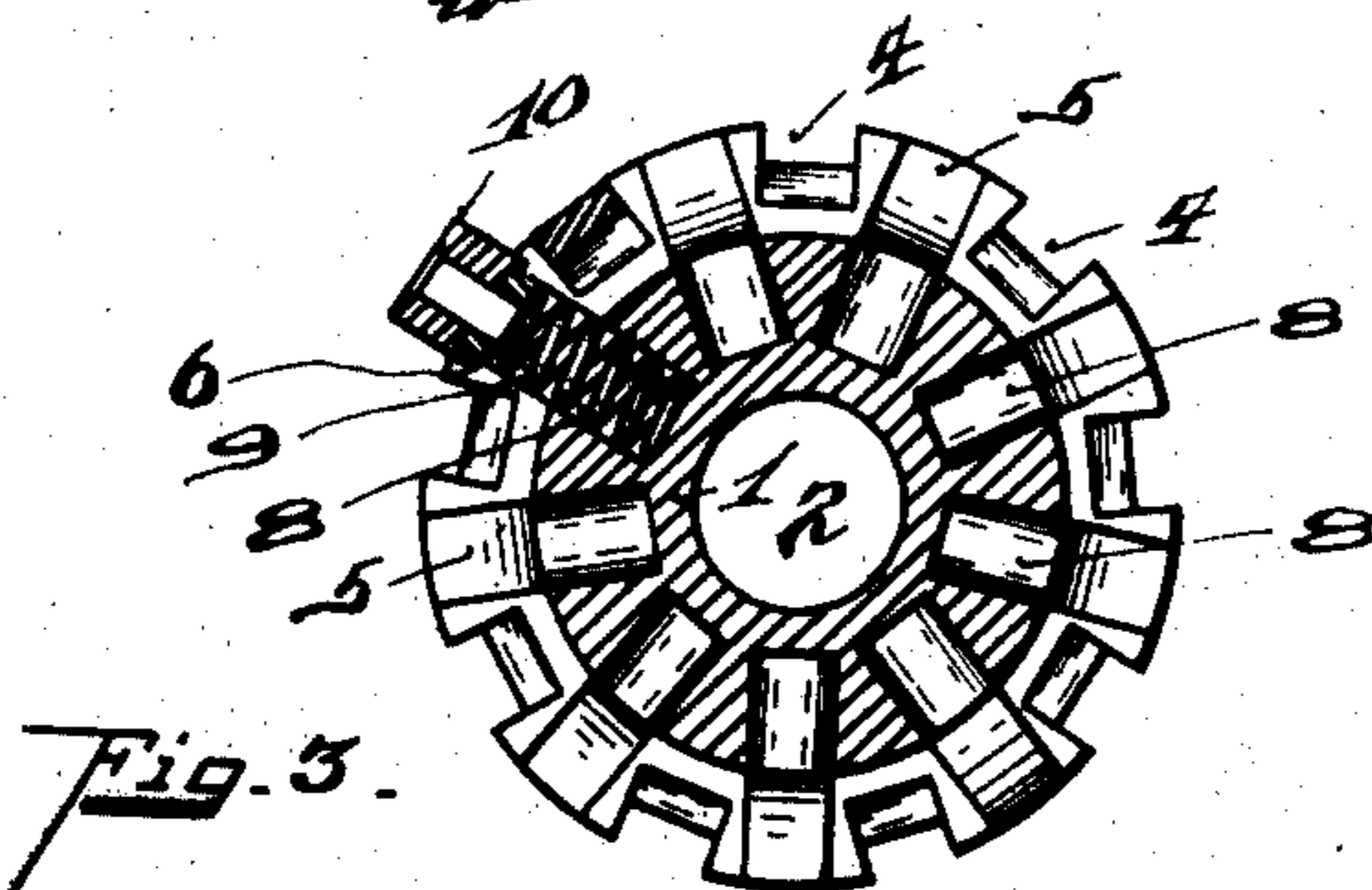
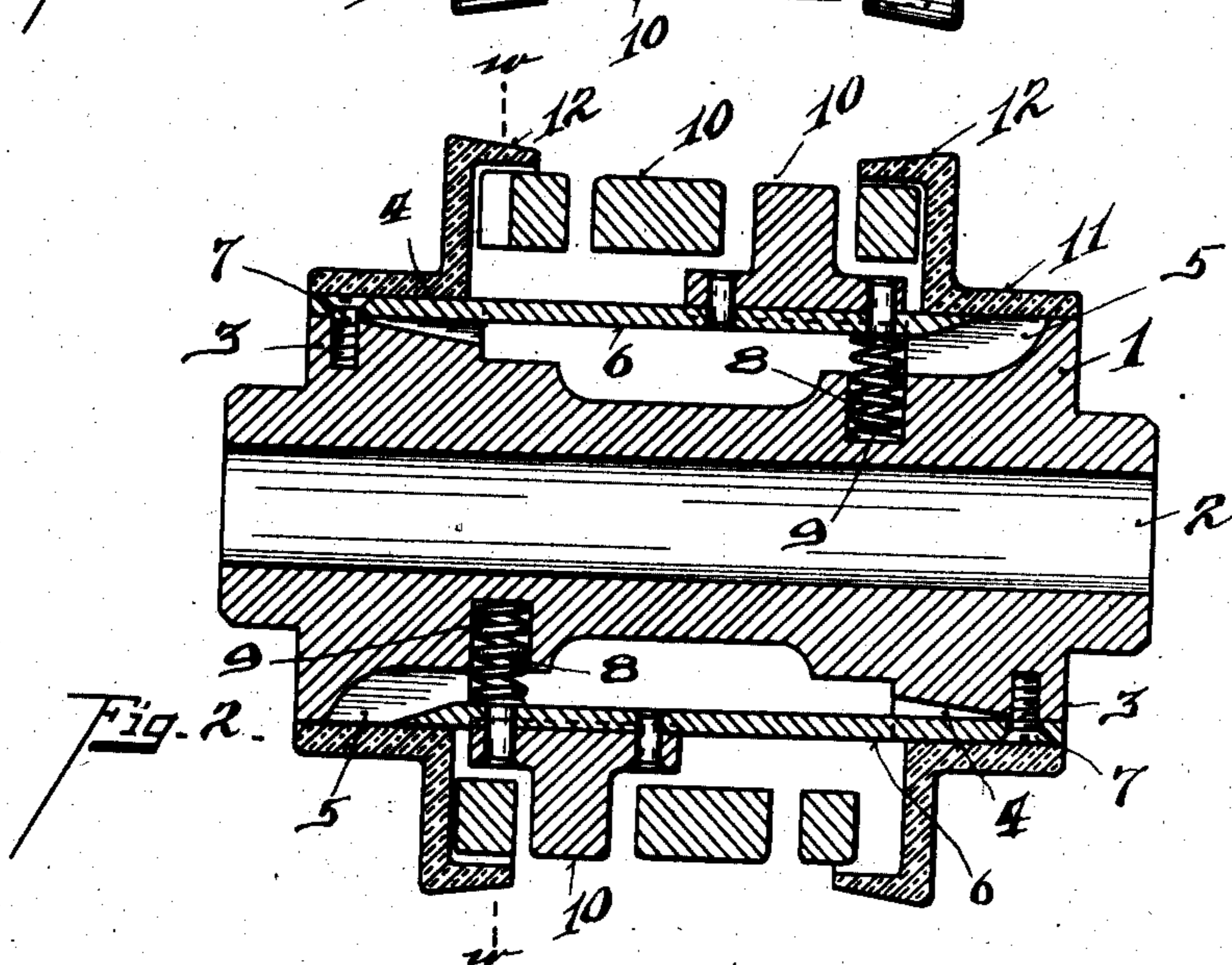
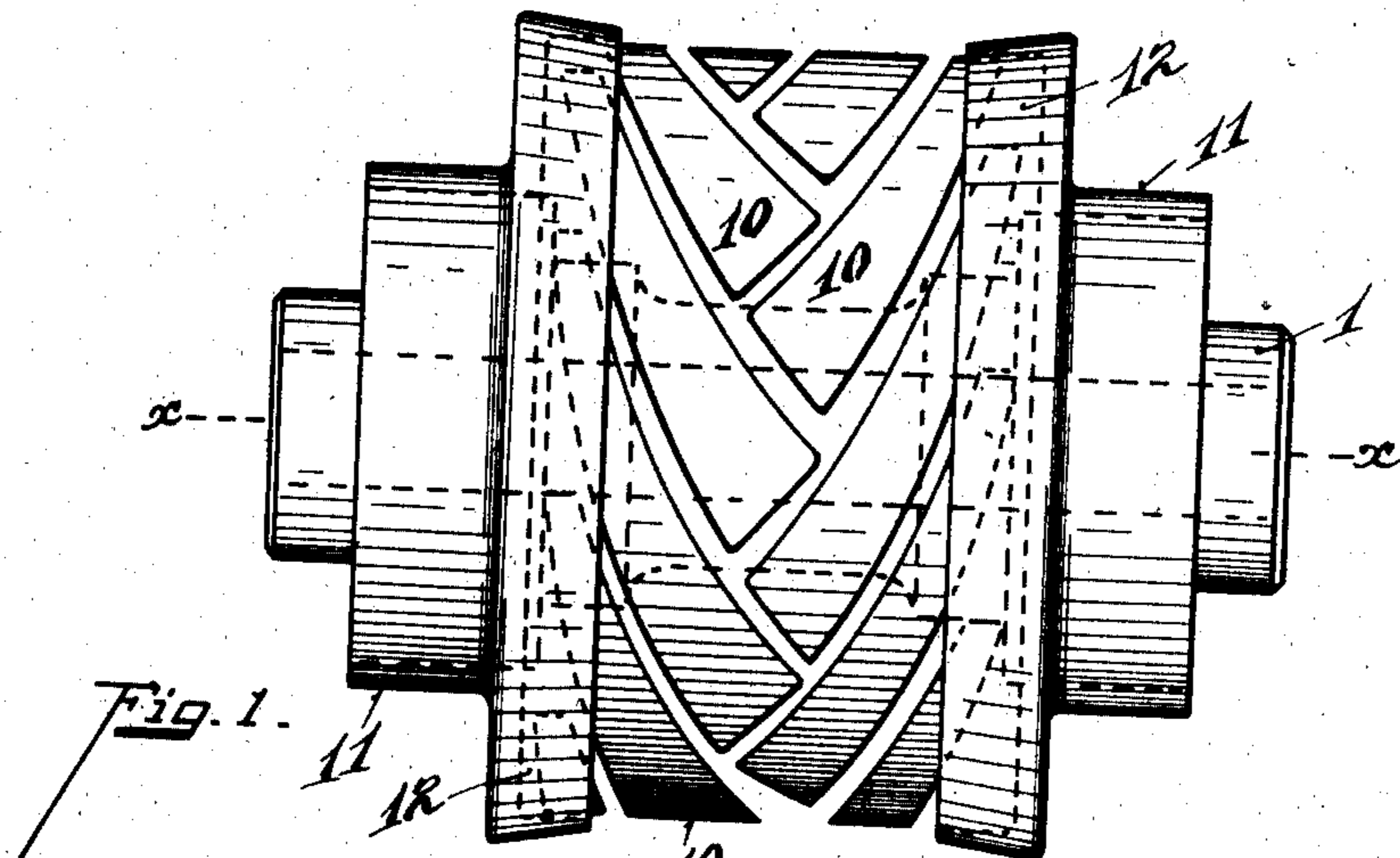


No. 854,320.

PATENTED MAY 21, 1907.

S. J. WENTWORTH.  
HEEL SEAT FORMING MACHINE.  
APPLICATION FILED APR. 6, 1906. RENEWED MAR. 16, 1907.



Witnesses

Oliver B. Kaiser  
Lee O'Donnell

Inventor

364  
Samuel J. Wentworth  
Woods & Wood.  
Attorneys

# UNITED STATES PATENT OFFICE.

SAMUEL J. WENTWORTH, OF NEWPORT, KENTUCKY, ASSIGNOR TO THE  
WENTWORTH COMPANY, OF CINCINNATI, OHIO, A CORPORATION.

## HEEL-SEAT-FORMING MACHINE.

No. 854,320.

Specification of Letters Patent.

Patented May 21, 1907.

Application filed April 6, 1906. Renewed March 16, 1907. Serial No. 362,776.

*To all whom it may concern:*

Be it known that I, SAMUEL J. WENTWORTH, a citizen of the United States, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Heel-Seat-Forming Machines, of which the following is a specification.

My invention relates to an improvement in the heel seat forming machine illustrated, described and claimed in my pending application Serial No. 236,010, filed December 8, 1904.

The object of the present invention is to provide an improved spring mounting for the irons.

Another object of my invention is to improve the structural parts of the rotating support.

The features of the invention are more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which:—

Figure 1 is a front elevation of my device. Fig. 2 is a section on line *x, x*, Fig. 1. Fig. 3 is a section on line *w, w*, Fig. 2.

In this device the rotary support is specifically a hub 1 having the bore 2, to receive the shaft to which the hub is fixed. Preferably, though not essentially, the hub is provided with the raised end portions 3. The peripheries of these end portions 3 are milled out to form slots parallel with the axis. One of these slots, say, 4 is open from end to end, while its opposing slot 5 on the opposite raised end is closed. These open and closed slots are alternately disposed around the peripheries of these raised ends of the hubs 3. In the open end slot 4 is seated one end of a supporting bar 6, being secured thereto by a screw 7 passing loosely through the said bar 6 to allow a slight amount of play of the bar at this its attached end. The opposite or yielding end of the bar 6 extends into the closed slot 5.

The raised portion 3 of the hub are also provided with a series of radial orifices 8 within which is placed a series of coiled springs 9, projecting radially from said orifices. These orifices are so disposed that the upper ends of the coiled springs will lie under and support the yielding ends of the bar 6. Upon the free ends of these bars 6 are secured the oppositely inclined irons 10, sub-

stantially the same as in the device of my said prior application, and which need not be further described.

11 represents collars having flanges 12 forming guards over the outer ends of the irons 10. These collars are frictionally driven over the ends of the hub seating upon the raised portions 3.

It will be understood that the purpose of this device is to form heel seats of shoes and perform other finishing work for the lasting of a shoe, and that the shoe is presented to the irons while the hub is being rapidly rotated. It is desirable that these irons shall be independently yielding and that the spring mountings shall be strong and durable. My invention fully realizes this desideratum and therefore adds to the efficiency of the device.

Having described my invention, I claim:—

1. In a heel seat forming device, a hub, a series of irons and supporting bars pivotally attached to the hub, and coil springs supporting the free ends of the bars, substantially as described.

2. In a device of the class described, a hub, a series of bars alternately attached at opposite ends to the hub, springs mounted between the hubs and the free ends of the bars, and irons attached to said bars, substantially as described.

3. In a device of the class described, a hub, a series of bars alternately attached at opposite ends of the hub, the hub being provided with a series of radial orifices adjacent to the free end of said bars, coil springs within said orifices upon the upper ends of which the free ends of said bars engage, and irons secured to the said bars, substantially as described.

4. In a device of the class described, a hub having raised portions at each end the peripheries of which are provided with a series of axially extended slots, a series of bars alternately seated in said slots, with their free ends extending into the intermediately alternating slots, the hub being provided with a series of radial orifices under the free ends of the bars, coil springs within said orifices upon the upper ends of which the free ends of said bars engage, and irons secured to said bars, substantially as described.

5. In a device of the class described, a hub having raised portions at each end the peripheries of which are provided with a series

of axially extended slots, a series of bars alternately seated in said slots, with their free ends extending into the intermediately alternating slots, the hub being provided with a series of radial orifices under the free ends of the bars, coil springs within said orifices upon the upper ends of which the free ends of said bars engage, irons secured to said bars, and collars seated upon the said raised ends of the

hub, having guard flanges overhanging the outer ends of said irons, substantially as described.

In testimony whereof, I have hereunto set my hand.

SAMUEL J. WENTWORTH.

Witnesses:

OLIVER B. KAISER,  
LEO O'DONNELL.