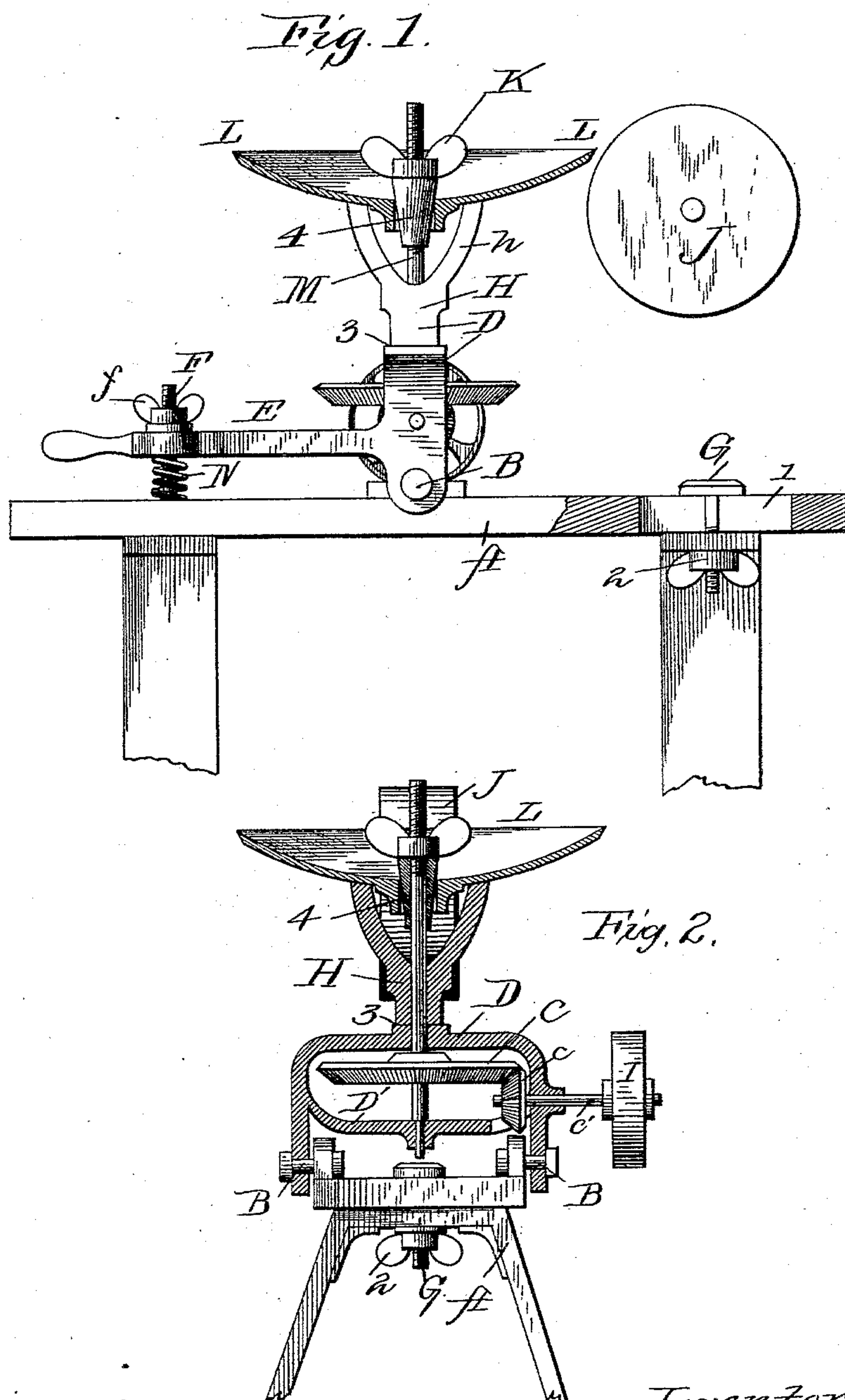


(No Model.)

W. J. McGEHE.
ROTARY GRINDING MACHINE.

No. 414,565.

Patented Nov. 5, 1889.



Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM J. McGEHE, OF BUSHNELL, ILLINOIS.

ROTARY GRINDING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 414,565, dated November 5, 1889.

Application filed March 29, 1888. Serial No. 268,916. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM J. McGEHE, a citizen of the United States, residing at Bushnell, in the county of McDonough and State of Illinois, have invented new and useful Improvements in Rotary Grinding-Machines, of which the following is a specification.

My invention includes details of construction hereinafter described.

In the drawings, Figure 1 is a side elevation of the supporting-base and movable article-holder, some of the parts being in section. Fig. 2 is an end view of the same partly in section.

J is the grinding-wheel. A is the main base, and D H designate, generally, the article-holder pivoted thereto at B. The base A is slotted at 1 and receives the bolt G, held by a nut 2. By loosening the nut the base may be moved, so as to adjust the article toward or from the grinding-wheel J. The article shown is the disk L, and it will be obvious that the adjustment of the base A will render the device capable of receiving disks of different diameters, and, in connection with the pivotal movement of the holder, will increase the capacity of the device for making various-shaped edges—such as beveled, square, round, &c. The bracket D is pivoted at B to each side of the base, and it affords a bearing at 3 for the spindle M, the other bearing of which is provided by an arm D' of the bracket. Above the bracket the spindle has a collar H secured thereto to revolve with it, and from this collar arms h extend up to afford a bearing for the disk L. The disk is put in place with the spindle M extending through its central opening, and it is held by a nut K, threaded upon the spindle, which has

a conical centering projection 4, adapted to pass through the opening in the disk and thus hold the same in accurate position. The spindle is driven by a crown-wheel C and bevel-pinion c, the latter being on a shaft c', which may be driven by hand or by belt-pulley I.

For holding and adjusting the disk-support D H, an arm E extends from the bracket D and is provided with an opening and a handle at its front end. The opening receives the screw-threaded pin F, secured to the base A, and a spring N bears upon the arm and tends to force the disk into engagement with the grinding-wheel. An adjusting-nut f' determines the position of the support and the amount of grinding to which the disk-edge is subjected. The spring N provides a yielding pressure to hold the disk against the wheel J.

I claim as my invention—

1. In combination, the adjustable base A, the grinding-wheel, the support for the article, a spring for applying pressure to said support, and a nut for limiting the movement of the support arranged to force the support and article toward the grinding-wheel, all of said parts being carried by the adjustable base, substantially as described.

2. In combination, the base, the bracket D, the spindle M, the arms h, carried by the spindle to afford a rest for the article, the holding-nut on the opposite side of the article from the arms for pressing the article against the said arms h, said nut being combined with a centering-cone, substantially as described.

WILLIAM J. McGEHE.

Witnesses:

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