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CIGAR SHAPING MACHINE.

APPLICATION FILED JAN. 11, 1908.

Patented Mar. 16, 1909.

2 SHEETS—SHEET 1.

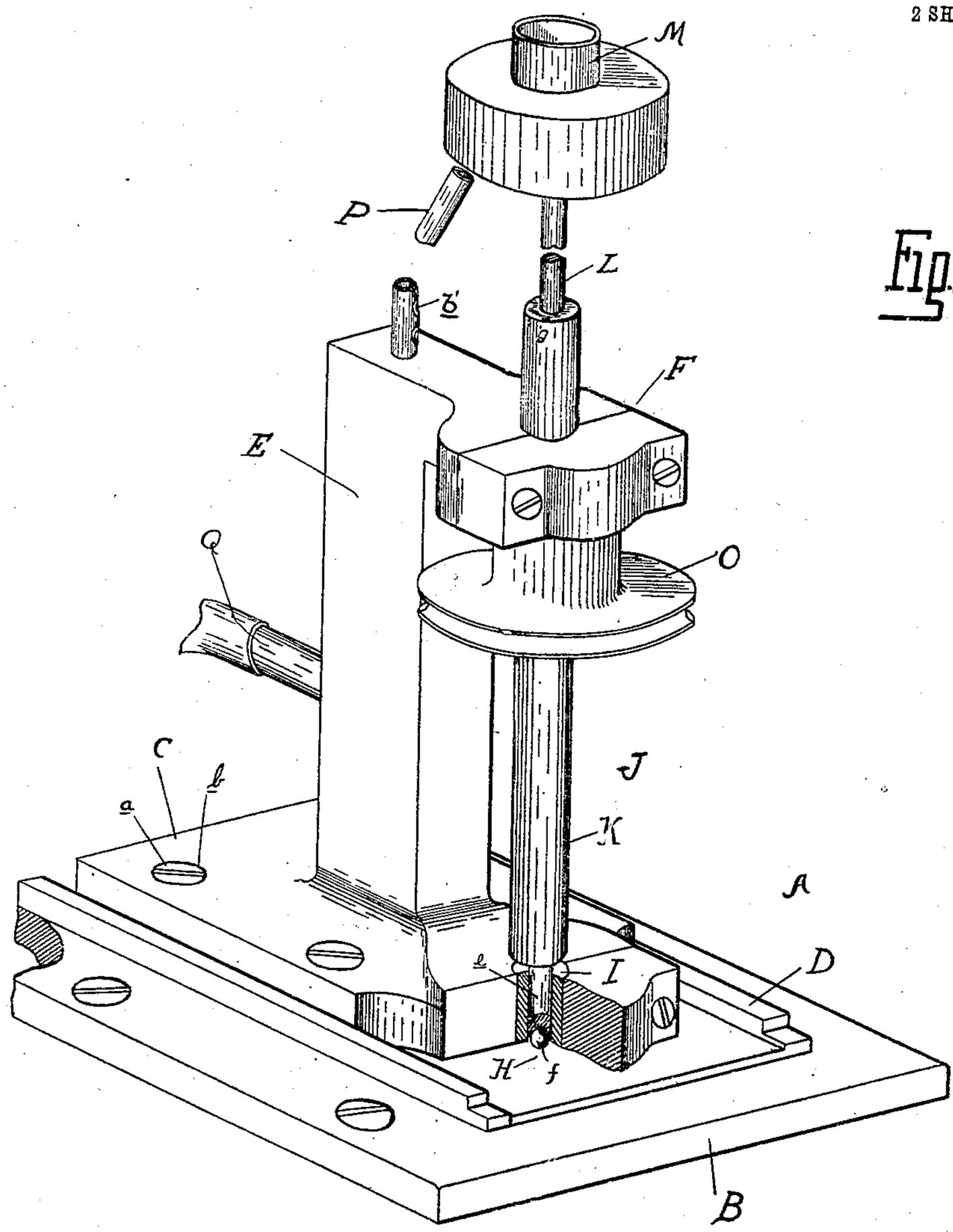

Fig. 1.

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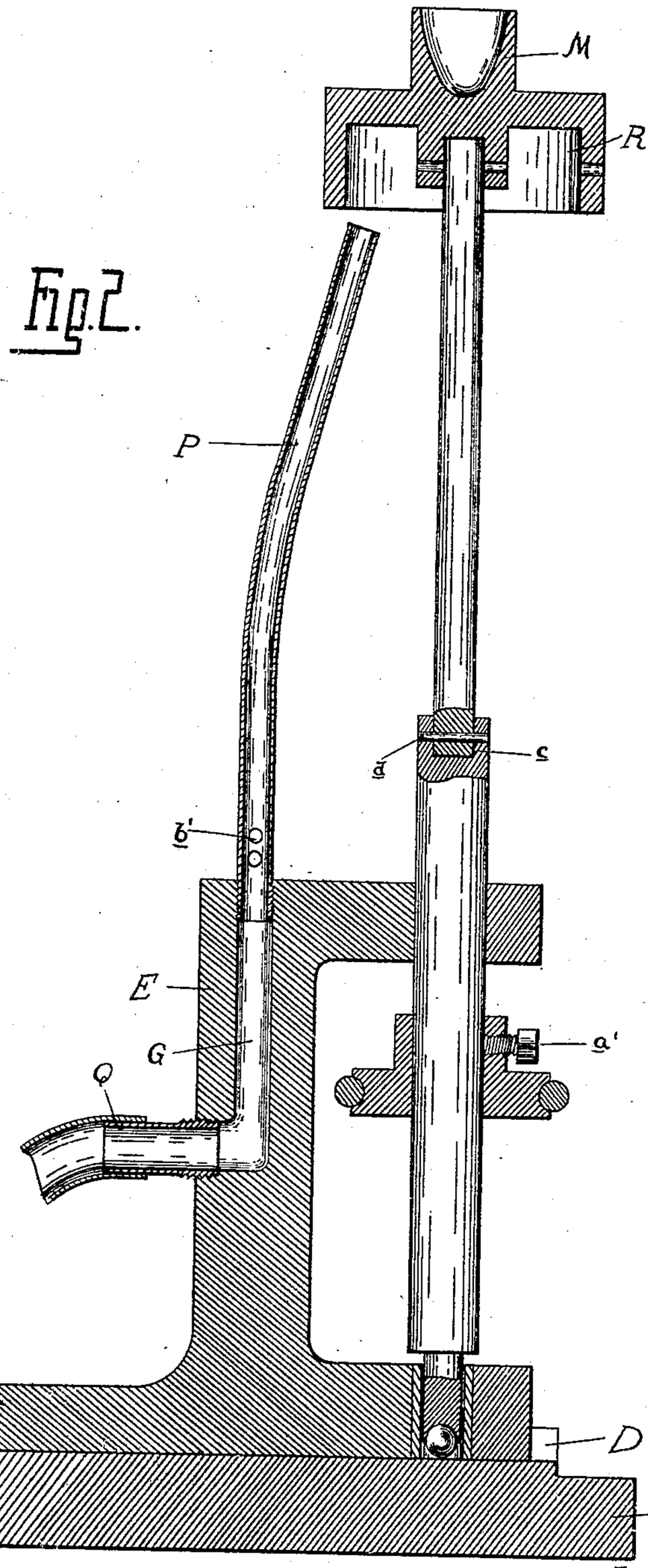
2 SHEETS—SHEET 2.

Fig. 2.



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UNITED STATES PATENT OFFICE.

GUSTAV A. MOEBS, OF DETROIT, MICHIGAN.

CIGAR-SHAPING MACHINE.

No. 915,203. Specification of Letters Patent. Patented March 16, 1909.

Application filed January 11, 1908. Serial No. 410,419.

To all whom it may concern:

Be it known that I, GUSTAV A. MOEBS, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Cigar-Shaping Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates particularly to a machine for shaping or forming the butt ends of cigars, and consists in the novel construction of a portable machine of this character, in the peculiar arrangement and combination of its parts, and in various details of construction, as will be more fully hereinafter set forth.

In the drawings,—Figure 1 is a perspective view of a shaping machine, partly in section; and Fig. 2 is a vertical central section therethrough.

In construction, the machine comprises primarily a support A, formed of a bed plate B adapted to be secured in any suitable manner to the bench or other article on which the machine is to be mounted, and a base section C mounted for horizontal adjustment upon the bed plate between suitable guide bars D.

E represents a standard or upright upon the base section, carrying at its upper end,—and offset laterally therefrom,—a split journal bearing F, and having formed longitudinally therein a bore G extending from the standard top downwardly to a point near the center, and then laterally, and forming the conduit for the burner hereinafter described.

H represents a split bearing upon the base section in alinement with the bearing F, the bearing proper consisting of a bearing sleeve I, which extends entirely through the base section as shown in Fig. 1.

J represents a shaft mounted in the bearings described and having a thrust bearing upon the bed plate. It is sectional in formation, consisting of a main member or section K journaled in the bearing F, and having a reduced section *e* engaging the bearing sleeve, and a spindle section L which fits within a socket *c* in the upper end of the main section, and is detachably connected thereto by a pin *d*.

Mounted upon the upper end of the spindle is a shaping or forming thimble M adapted to give the desired form or taper to the cigar end, this thimble being detachable with the spindle section, so that other thimbles of different forms or size may be substituted to permit different shapes to be given to the cigar end.

O represents a pulley adjustably secured to the main section K of the shaft by a suitable set-screw, as *a'*, the pulley being adapted to be operated by belting running to a suitable motor or onto a main shaft driven by the motor not herein shown.

In forming the butt of the cigar, the shaft is rotated at the desired speed and the cigar butt placed within the thimble M, which smoothly finishes the tip and gives it the desired form. For the purpose of accelerating the setting of the end in the desired shape, and of giving a polish to the tip, heat is employed in this instance by a burner, as P, in the form of a pipe having suitable apertures *b'* therein to permit of mixing, which at its lower end engages the bore G in the standard, and extends above the latter in operative relation to the thimble. A suitable connection, as Q, leads from the lower end of the bore or conduit to a suitable source of gas supply.

For the purpose of concentrating the flame about the thimble, I preferably provide an inverted cup-shaped member R on which the thimble is supported, the parts being preferably formed in one piece, as shown in Fig. 2, but not necessarily so. The parts are so proportioned that the end of the burner is in close proximity to the lower edge of the cup, so that the flame is directed inside of the latter, and is thus concentrated about the thimble and also protected.

The base section C is made adjustable, so that the standard and vertical shaft may be shifted so as to take up any slack in the belting, and any means for effecting this adjustment may be employed. I have here shown as the preferable means screws *a* extending in openings *b* formed in the base plate for that purpose and adapted to engage corresponding threaded openings in the bed B, the openings in the bed being of such number as to permit the shaft to be shifted any desired amount for the purpose set forth. Also, to facilitate the operation of the machine, I preferably interpose between the shaft and the bed a ball constituting an antifriction bearing between the parts.

The sectional shaft described, in addition to permitting of the removal and substitution of thimbles of different size and form, serves to prevent the heating of the bearings

by the flame from the burner, the break in the shaft formed by the sections preventing the heat from being conducted from the thimble to the bearings, thus preventing the expansion of the latter and the binding of the parts.

What I claim as my invention is,—

1. In a cigar-shaping machine, the combination with a support, of a shaft mounted endwise thereon, an inverted cup-shaped member upon the upper end of the shaft, a forming thimble supported centrally upon the cup, a burner arranged to direct the flame within the cup, and means for rotating the shaft.

2. In a cigar-shaping machine, a rotatable shaping thimble provided with a skirt, and a heater in operative relation to the skirted thimble.

3. In a cigar-shaping machine, the combination with a rotary shaft, of a shaping thimble upon the shaft end, a cup-shaped member upon the thimble, and a burner tube extending in proximity to the thimble and adapted to direct the flame within the cup-shaped member.

4. In a cigar-shaping machine, the combination with a bed-plate, of a base section adjustably mounted thereon having a journal bearing extending in angular relation to the bed, a rotatable shaft engaging said bearing and having a thrust bearing upon the bed, and a shaping or forming thimble carried and operated by the shaft.

5. In a cigar-shaping machine, the combination with a support, of a vertical journal bearing thereon in the form of a detachable bearing sleeve, a rotatable shaft engaging the sleeve at its lower end and having a thrust bearing upon the support, a vertical bearing for the upper portion of the shaft, and a shaping thimble carried by the shaft.

6. In a cigar-shaping machine, the combination with a bed-plate, of a base section adjustably mounted thereon, a journal bearing extending vertically through the base section to the bed, a rotatable shaft vertically mounted in said bearing, an antifriction bearing intermediate the shaft end and the bed, and a shaping thimble carried by the shaft.

7. In a cigar-shaping machine, the combination with a vertically-mounted shaft, of an upright adjoining the shaft having a conduit formed therein, a shaping or forming thimble upon the shaft, a burner upon the upright communicating with the conduit therein and extending in operative relation to the thimble, a suitable connection leading from the conduit, and means for rotating the shaft.

8. In a cigar-shaping machine, the combination with a support, of an upright thereon provided with vertical laterally offset journal bearings, a rotatable shaft journaled in said bearings and having a thrust bearing upon the support, a shaping thimble upon the shaft end, and a burner tube supported upon the upright extending in operative relation to the thimble.

9. In a cigar-shaping machine, the combination with a bed-plate, of a base section adjustably mounted thereon, an upright upon the base section, a vertical journal bearing upon the base offset laterally from the upright, a similar bearing upon the upper portion of the upright alining with the lower bearing, a shaft engaging said bearing, a drive pulley upon the shaft intermediate the bearings, a shaping thimble provided with a skirt upon the upper end of the shaft, and a burner tube supported upon the upright and extending in operative relation to the thimble.

In testimony whereof I affix my signature in presence of two witnesses.

GUSTAV A. MOEBS.

Witnesses:

NELLIE KINSELLA,

JAMES P. BARRY.