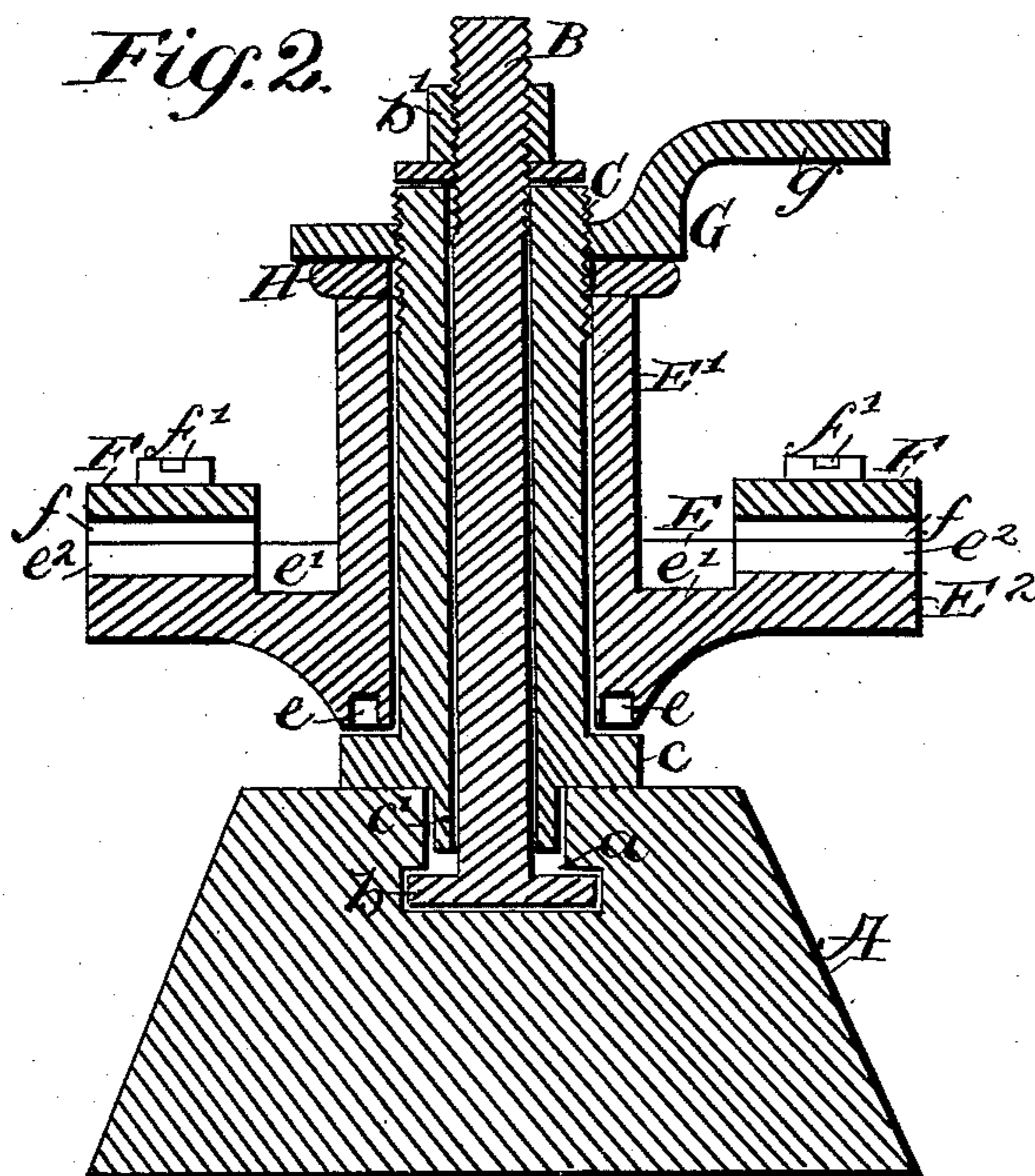
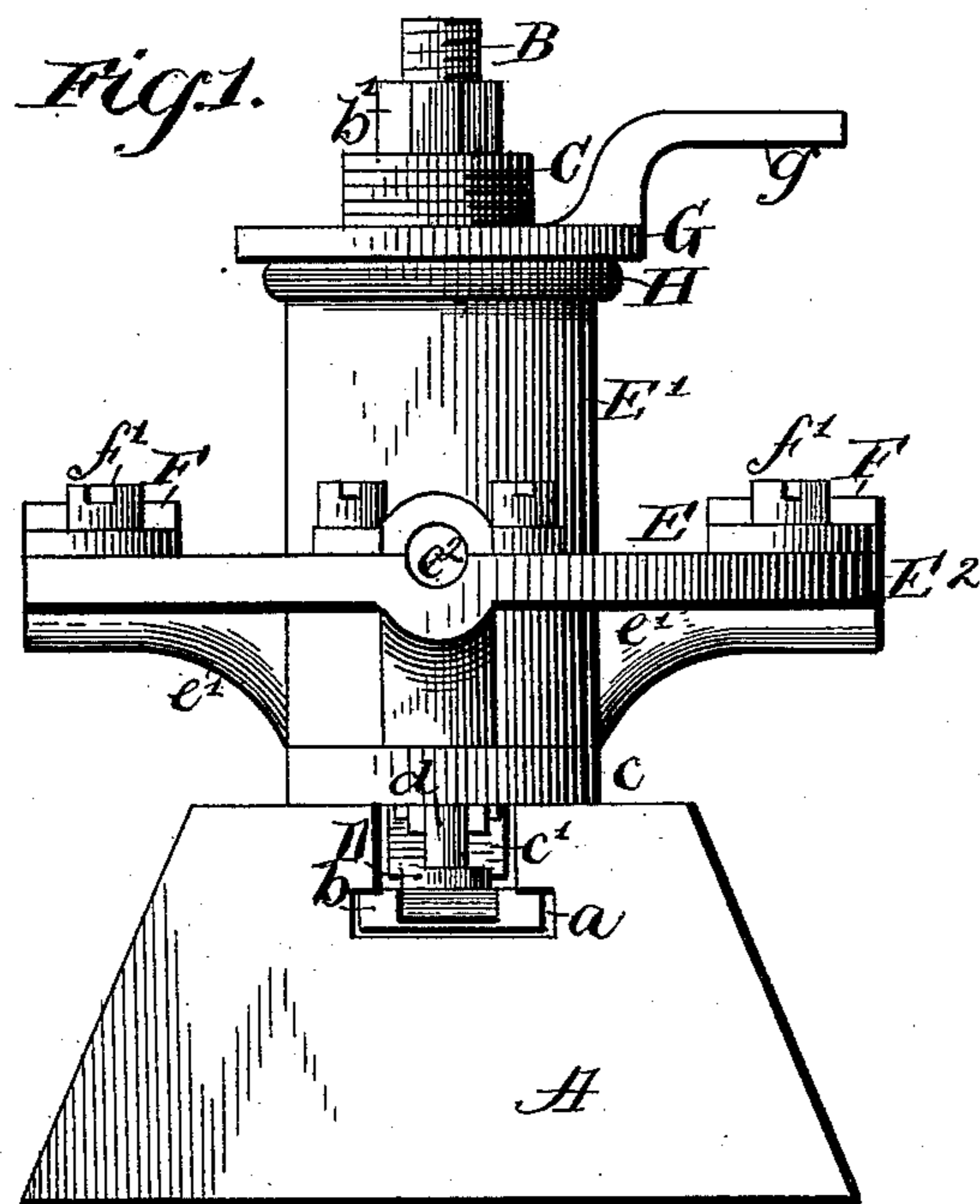


O. G. GUSS.

TURRET HEAD FOR LATHES.

No. 387,559.

Patented Aug. 7, 1888.



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Fig. 3.

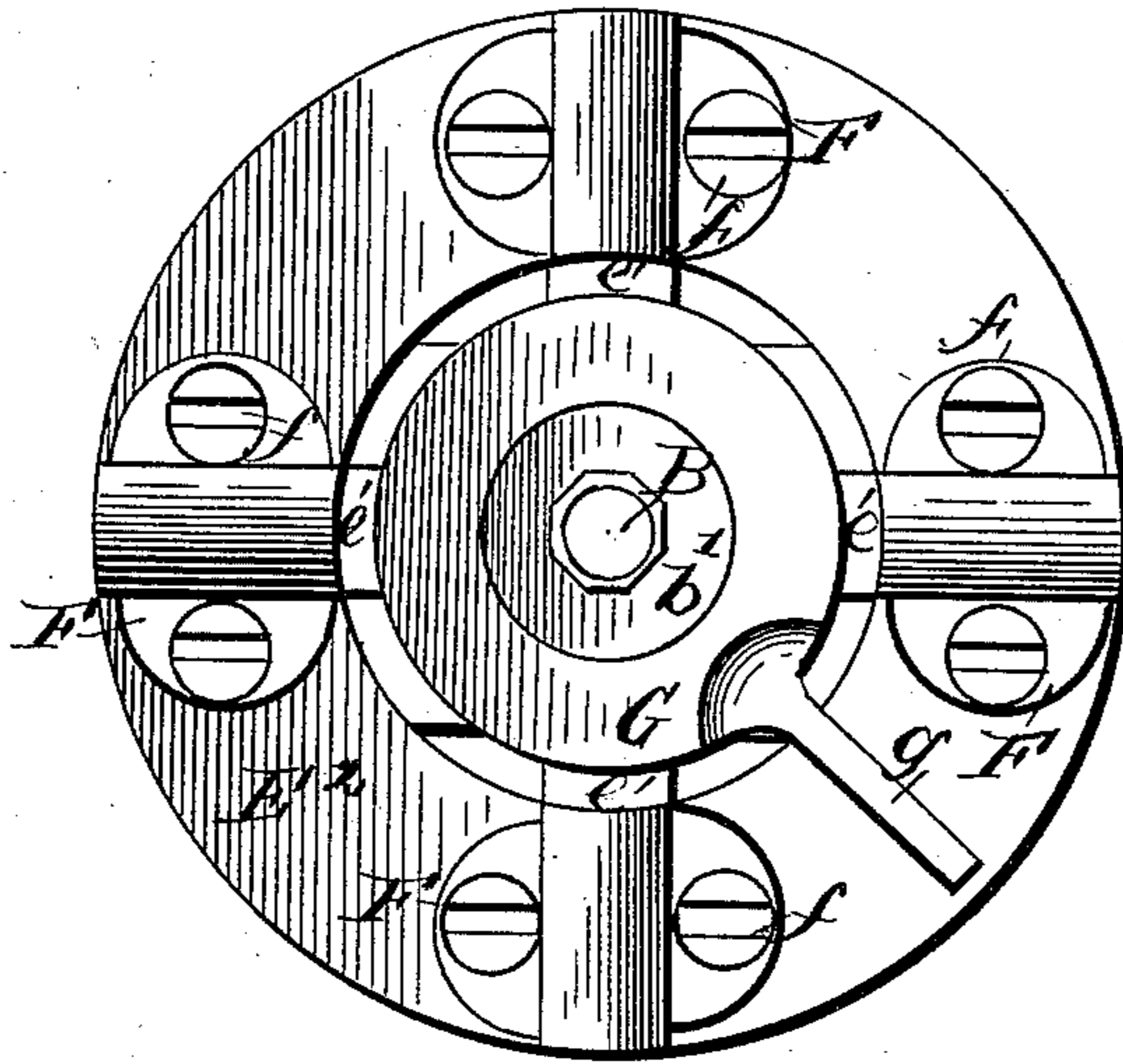


Fig. 4.

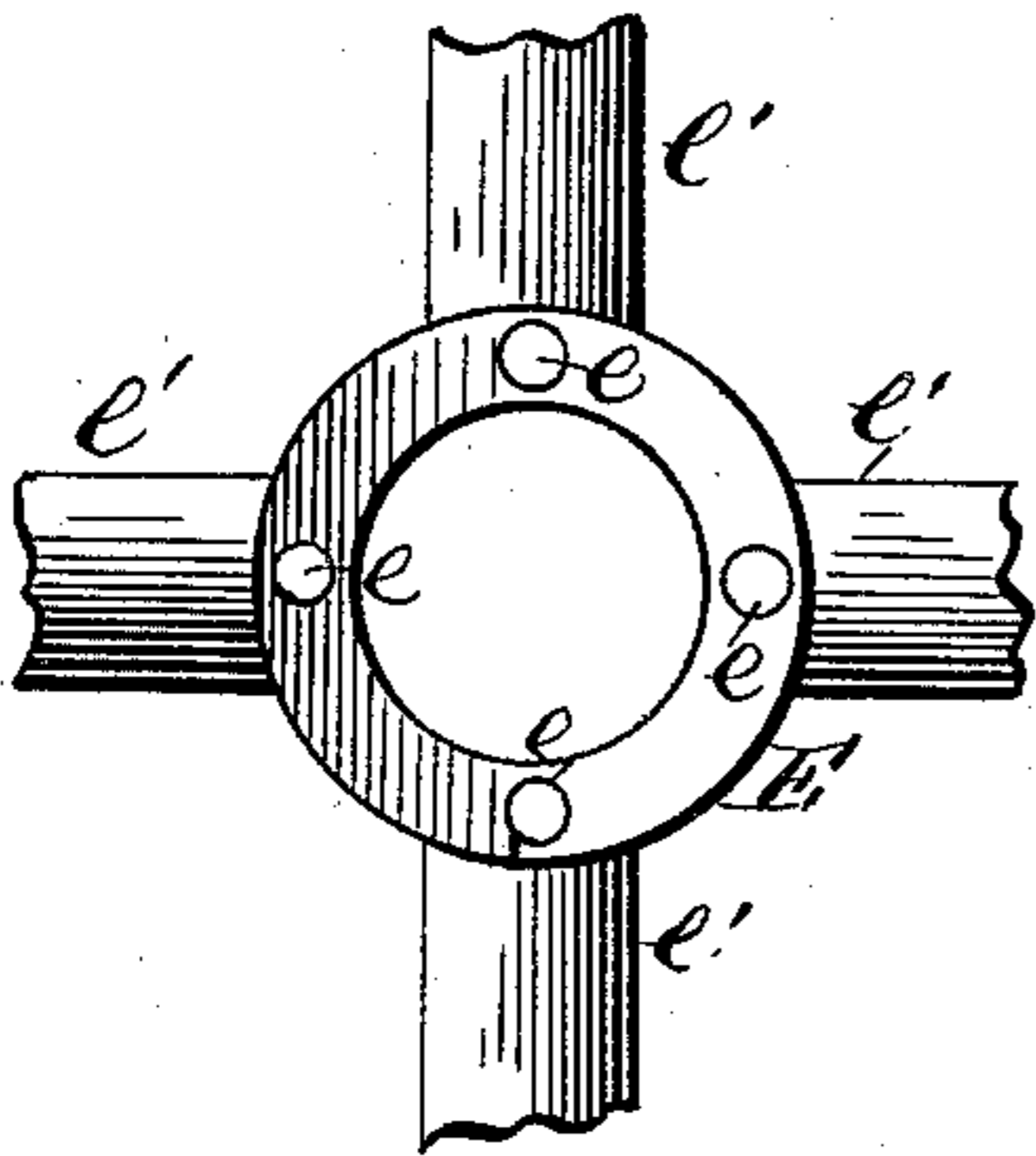
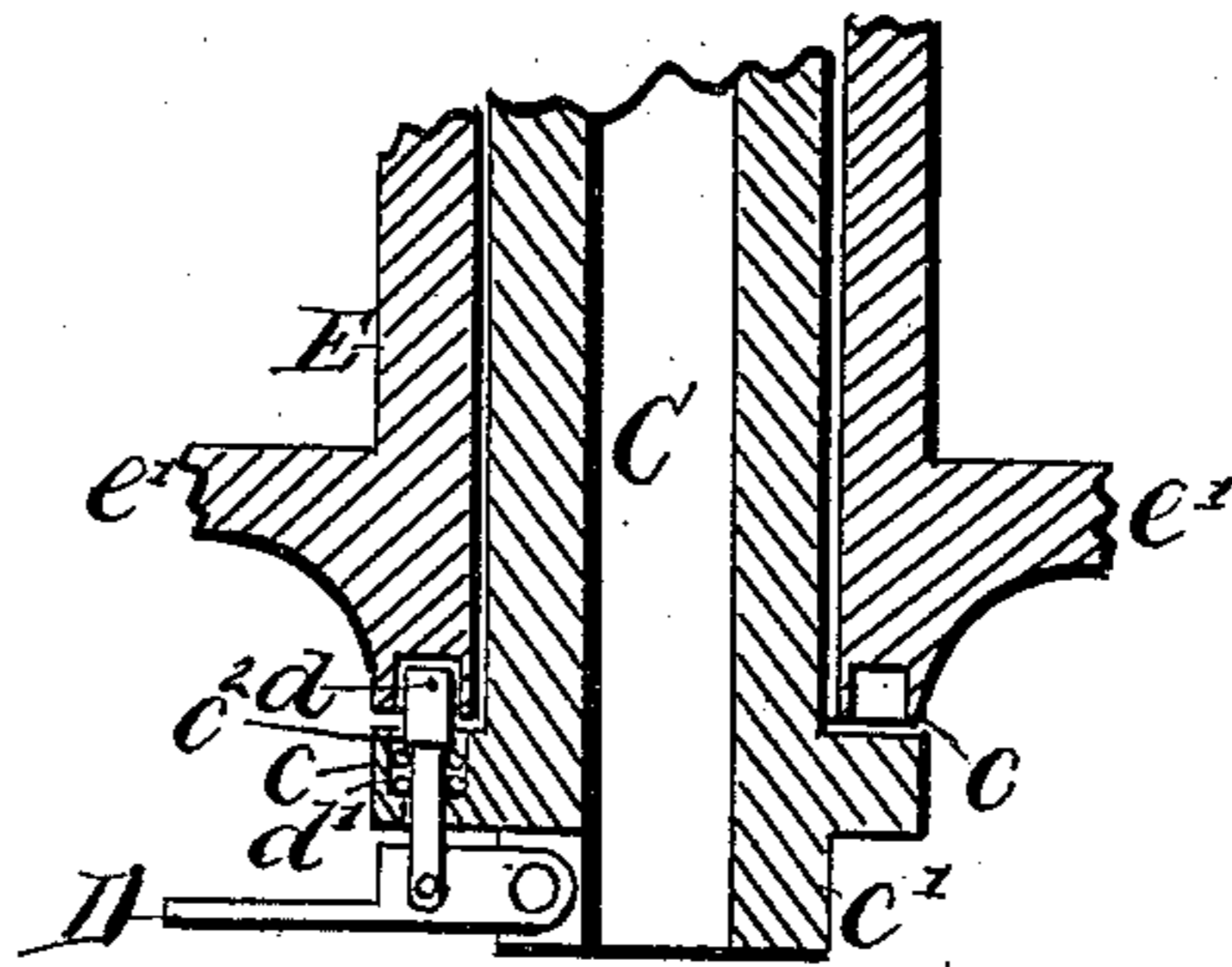


Fig. 5.



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UNITED STATES PATENT OFFICE.

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TURRET-HEAD FOR LATHES.

SPECIFICATION forming part of Letters Patent No. 387,559, dated August 7, 1888.

Application filed October 27, 1887. Serial No. 253,514. (No model.)

To all whom it may concern:

Be it known that I, ORRANGE G. GUSS, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have
5 invented certain new and useful Improvements in Turret-Heads for Lathes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable
10 others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention has for its object to provide a
15 novel construction in turret-blocks to be used in connection with lathes; and the nature thereof consists in providing the tool-post block on the carriage of the lathe with a rotary head adapted to receive the necessary
20 tools, and means whereby the said tools may be brought and secured in their proper positions for the use thereof, and other details in the construction, as will be hereinafter fully described.

25 In the accompanying drawings, in which corresponding parts are designated by similar letters and indicate like parts in the several figures, Figure 1 is a side elevation of my complete invention. Fig. 2 is a vertical section
30 thereof. Fig. 3 is a top plan view, and Figs. 4 and 5 are detail views.

Referring to the drawings, A represents the tool-post block on the carriage of an engine-lathe, having formed therein a space or opening,
35 *a*, for the admission of the center post, B. This post is provided with a square head, *b*, which fits in the corresponding space, *a*, formed in the post-block, and upon which the cylinder C is placed.

40 The cylinder C is provided with an annular flange, *c*, near its lower end, which rests upon the upper surface of the block A, and is also provided with an extension, *c'*, which extends somewhat below the annular flange,
45 and is slotted to receive the pivotal end of the thumb-lever D. This lever is provided with a lug, *d*, hinged or pivoted at or near its center, and which extends through the circular opening *c''* in the annular flange *c*, being al-

ways held in an upward position by the coil- 50
spring *d'*.

Upon the cylinder C is placed the turret-head E, and is adapted to be rotated upon it.

The turret E is composed of a hub, E', the lower surface of which rests upon the annular 55
flange *c* of the cylinder C, and is provided with four holes, *e*, for the admission of the lug *d* of the thumb-lever, whereby the head is rotated and held firmly in position. From the hub E'
are formed four arms, *e'*, upon which an annular 60
rim, E², is formed, and is provided with four semicircular openings, *e''*, upon its upper surface, over which the clamp pieces or caps F
are securely fastened. Upon the lower surface 65
of these clamp pieces or caps are formed semicircular openings or grooves *f*, corresponding to those formed on the surface of the annular rim, thereby providing circular openings,
within which the tools are inserted and held 70
by means of the screws *f'*. To the upper end of the center post, B, are formed screw-threads
for receiving a nut, *b'*, which holds the cylinder C securely in place upon the tool-post
block. Upon the upper end of the cylinder C
are also formed threads for receiving the fric- 75
tion-nut G, which is provided with a handle, *g*, by means of which the turret is held firmly in
position upon the cylinder C. A friction-
washer, H, is placed between the friction-nut G and the upper edge of the hub-extension of 80
the turret-head. By this construction it will be seen that the different tools necessary to accomplish the work are held firmly in position
between the annular rim and clamp-pieces, and are brought in connection with the work 85
simply by pressing on the thumb-lever, which allows the lug secured thereto to free itself from the locking position it was normally in
and catch automatically in the next opening, which is on a direct line with the tool. 90

Having described my invention, I claim and desire to secure by Letters Patent—

In a turret-head for lathes, the combination of the tool-post block A, a center post, B, a cylinder surrounding the same, and a flange 95
formed upon the bottom thereof, a lower extension having a recess, a thumb-lever, D, pivoted therein, a lug pivoted to the said lever

and projecting through a hole in the said
flange, a coil-spring, *d'*, surrounding the said
lug, a turret, *E*, surrounding the cylinder *C*,
having recesses *e* in the lower edge thereof for
5 receiving the said lug, and a nut, *G*, having a
handle, *g*, screwed upon the cylinder *C*, for se-
curing the turret in position, as and for the
purpose described.

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

ORRANGE G. GUSS.

Witnesses:

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JOHN R. ASHTON.