

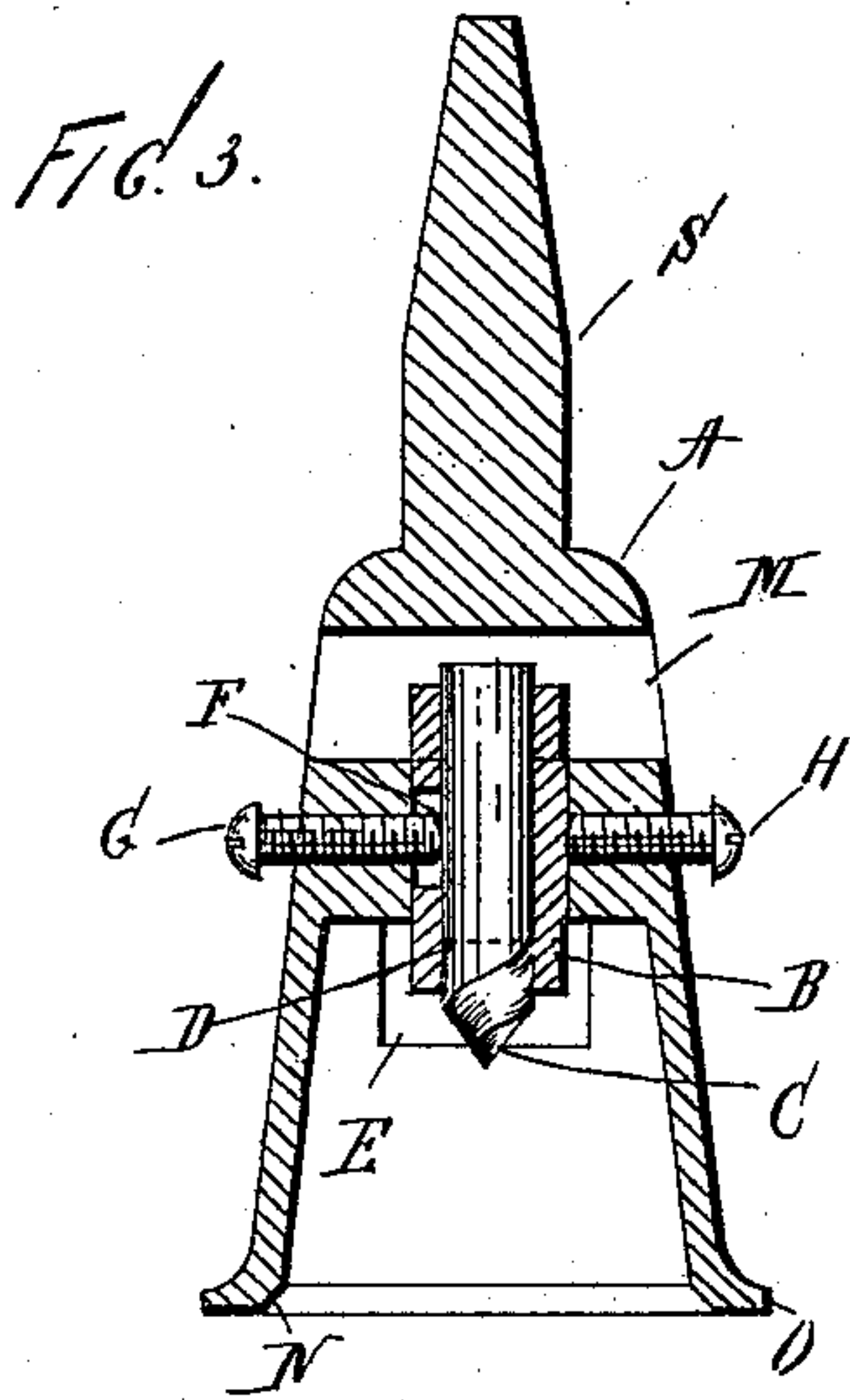
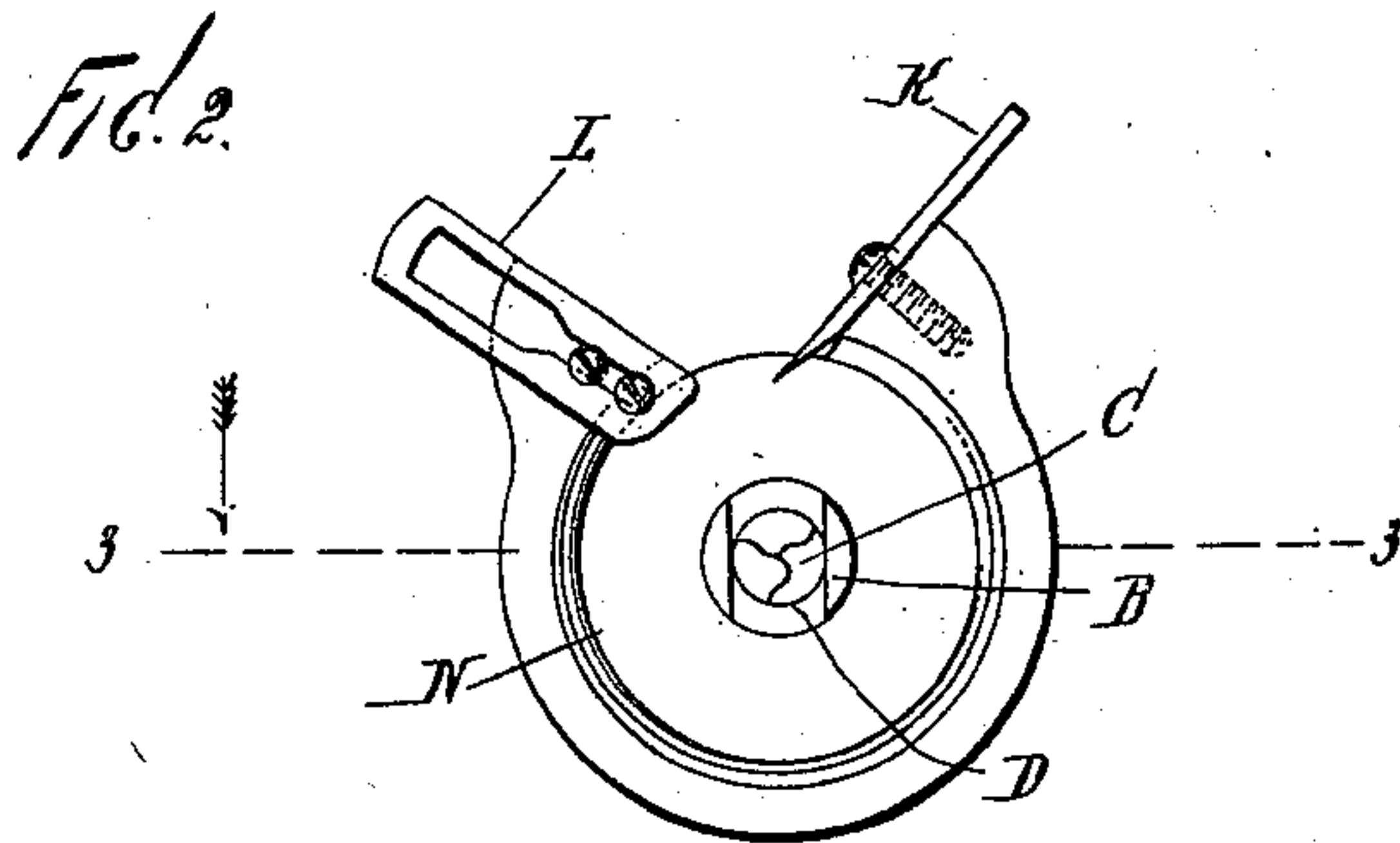
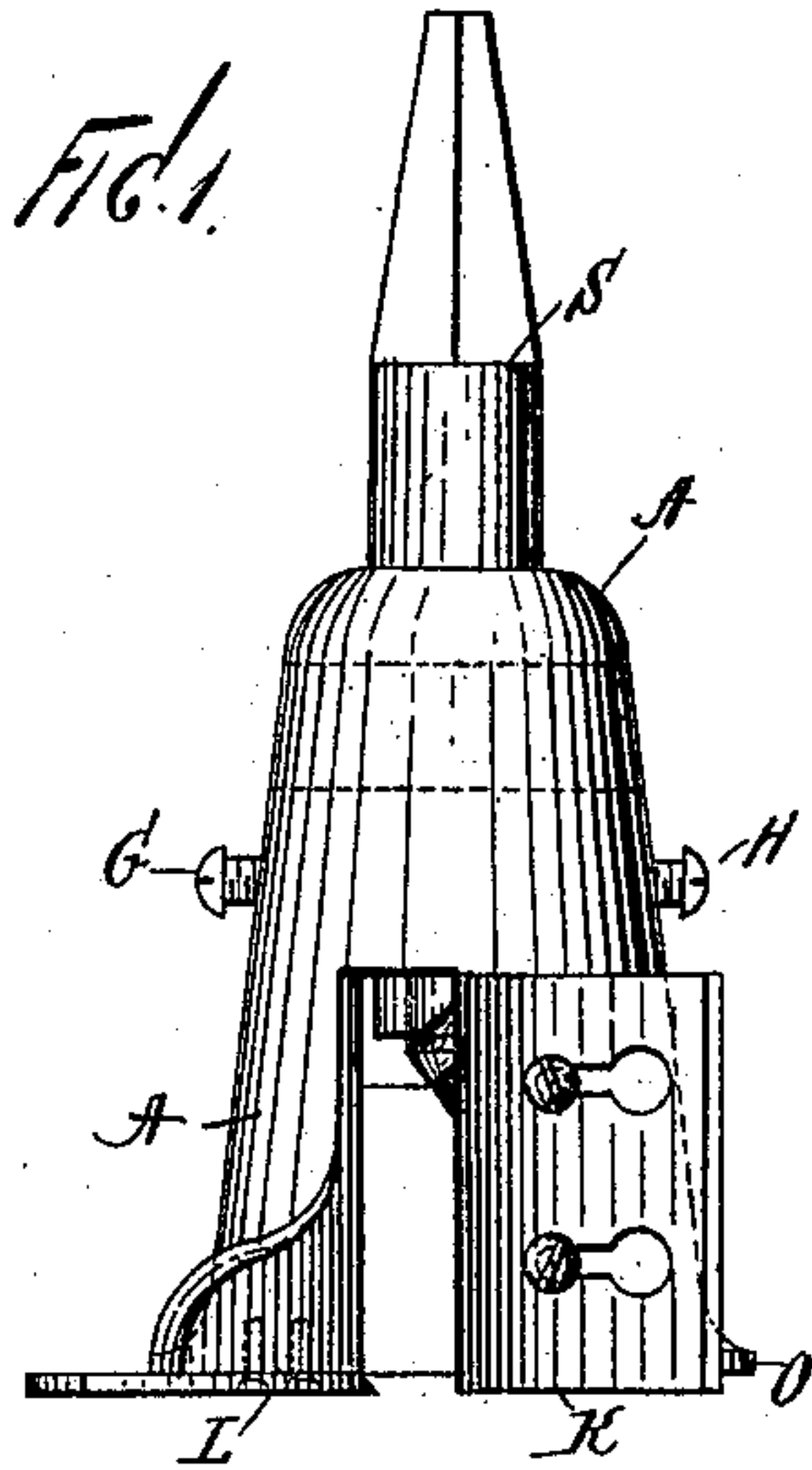
No. 617,441.

Patented Jan. 10, 1899.

H. KELLY.
TOOL.

(Application filed June 10, 1898.)

(No Model.)



WITNESSES

John Ruckler,
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INVENTOR

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BY

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ATTORNEYS

UNITED STATES PATENT OFFICE.

HENRY KELLY, OF ILKESTON, ENGLAND.

TOOL.

SPECIFICATION forming part of Letters Patent No. 617,441, dated January 10, 1899.

Application filed June 10, 1898. Serial No. 683,099. (No model.)

To all whom it may concern:

Be it known that I, HENRY KELLY, a subject of the Queen of Great Britain, residing at Ilkeston, in the county of Derby, England, have invented certain new and useful Improvements in Tools, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to tools for use in connecting socket-casters with the legs of sofas, couches, chairs, and other furniture; and the object thereof is to provide an improved device of this class which is simple in construction and operation and by means of which a caster may be connected with the leg of a piece of furniture by a single operation.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which—

Figure 1 is a side elevation of my improved tool; Fig. 2, a bottom plan view thereof, and Fig. 3 a central vertical section.

In the drawings forming part of this specification the separate parts of my improvement are designated by letters of reference, and in the practice of my invention I provide a tool made in sizes, with a rounded or tapered shank S, and fitting an ordinary brace when worked by hand or in a chuck or other device when worked by power and may be either of steel or steel and other metal combined.

The body A of the tool inside is tapered in like manner as the sockets of casters are tapered, and at the top there is a hole drilled perpendicular to receive a sheath B. This sheath also acts as a gage or stop and is also provided with a hole to receive the countersink cutter or drill C, which makes room for rivet-heads of casters. At the bottom end of the sheath B is a through-slot or shavings-slot D for the free passage of shavings from the countersink cutter or drill C to a shavings-outlet E in the body A of the tool opposite. There is also another slot—the sheath and cutter slot F—in the said sheath B, cut through one wall of the sheath B and parallel to the axis of the drill C. This sheath B, together with countersink cutter or drill C, is held secure by a screw G, passing through

the body A of the tool, bearing against the said countersink cutter or drill C, through the sheath B, and cutter-slot F. On the reverse side of the body A is another screw H, passing direct through the body A of the tool onto the sheath B, so that by releasing screw G from the sheath B and cutter-slot F the countersink cutter or drill C may be removed for sharpening or adjusting, while the sheath B remains fixed.

In the body A of the tool and directly over the sheath and cutter slot screws G and H is a perpendicular through-slot M for the easy setting or releasing of the sheath B and countersink cutter or drill C.

On the reverse side of the shavings-outlet E the perpendicular knife K is fixed to a projecting portion of the body A by screws, the knife K being so slotted and holed that by slightly releasing the screws it may be removed (for sharpening or adjusting) and refixed without withdrawing the screws.

The lance L, which cuts horizontally, is also fixed to a projecting portion of the body A, opposite to the knife K, by either flat or round head-screws and is so slotted, countersunk, and holed that by slightly releasing the screws the lance L may be removed (for sharpening or adjusting) and refixed without withdrawing the screws.

Inside, at the bottom of the body A, there is a chamfer N, giving clearance and freedom in working, and outside of the bottom is a small flange O for strengthening the body A of the tool. All cutting parts are of tempered steel and are adjustable. The purpose of the countersink cutter or drill C is to make room for rivet-heads of casters, and the perpendicular knife K reduces the wood to its proper size, shape, and taper, while the lance L, fixed horizontally, prevents the knife K from splintering or damaging the wood beyond.

The shavings-outlet E clears the tool of all shavings or cuttings by allowing free passage of air, the latter being all driven out of the sockets of the casters when fixed, which thereby strengthens the casters, insures rigidity, gives proper appearance, protects, and makes more durable and comfortable, with the greatest ease and freedom in moving either sofas,

couches, chairs, and the like from place to place, and one operation completes the construction and makes a perfect fit.

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

1. A tool for the purpose herein described, comprising a body portion provided at one end with a shank which is adapted to be connected with a brace or chuck, and the other end thereof being provided with a tapered recess or opening in the bottom of which is a socket, a sheath B mounted in said socket, a cutter or drill C, mounted in said sheath, said sheath being provided with a shavings-slot for discharging the shavings, and said body portion being provided opposite said shavings-slot with an outlet for the said shavings, substantially as shown and described.

2. A tool for the purpose herein described, comprising a body portion provided at one end with a shank which is adapted to be connected with a brace or chuck, and the other end thereof being provided with a tapered recess or opening in the bottom of which is a socket, a sheath B mounted in said socket, a cutter or drill C mounted in said sheath, said sheath being provided with a shavings-slot for discharging the shavings, said body portion being provided opposite said shavings-slot with an outlet for the shavings, and said sheath being also provided with a slot which extends in an opposite direction from the shavings-slot and which communicates with said outlet, substantially as shown and described.

3. A tool for the purpose herein described, comprising a body portion provided at one end with a shank which is adapted to be connected with a brace or chuck, and the other end thereof being provided with a tapered recess or opening in the bottom of which is a socket, a sheath B mounted in said socket, a cutter or drill C mounted in said sheath, said

sheath being provided with a shavings-slot for discharging the shavings, and said body being provided opposite said shavings-slot with an outlet for the shavings, said tool being also provided with a lance L, and a cutter K, substantially as shown and described.

4. A tool for the purpose herein described, comprising a body portion provided at one end with a shank which is adapted to be connected with a brace or chuck, and the other end thereof being provided with a tapered recess or opening in the bottom of which is a socket, a sheath B mounted in said socket, a cutter or drill C mounted in said sheath, said sheath being provided with a shavings-slot for discharging the shavings, said body portion being provided opposite said shavings-slot with an outlet for the shavings, and said sheath being also provided with a slot which extends in an opposite direction from the shavings-slot and which is adapted to receive a binding-screw for said cutter or drill C, substantially as shown and described.

5. A tool for the purpose herein described, comprising a body portion provided at one end with a shank which is adapted to be connected with a brace or chuck, and the outer end thereof being provided with a tapered recess or opening, in the bottom of which is a socket, a sheath B mounted in said socket, a cutter or drill C mounted in said sheath, and a slot or opening M in said body portion in proximity to said shank, through which said sheath B and said cutter may be adjusted, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 31st day of May, 1898.

HENRY KELLY.

Witnesses:

ALFRED NUTTING,
HERBERT D. JAMESON.