

(No Model.)

R. THAYER.

ELECTRICALLY OPERATED CUTTING DEVICE.

No. 395,524.

Patented Jan. 1, 1889.

FIG. 4.

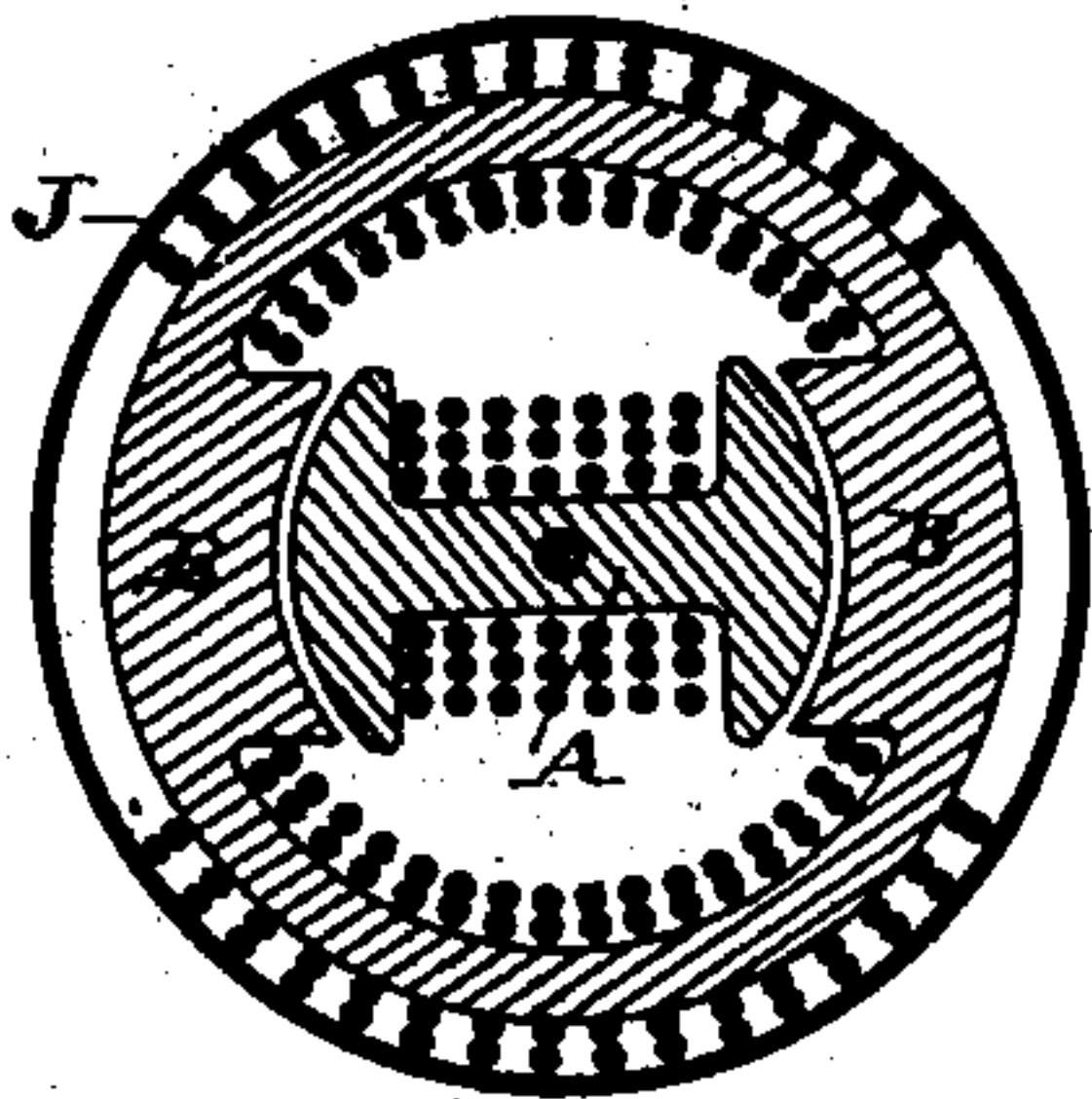
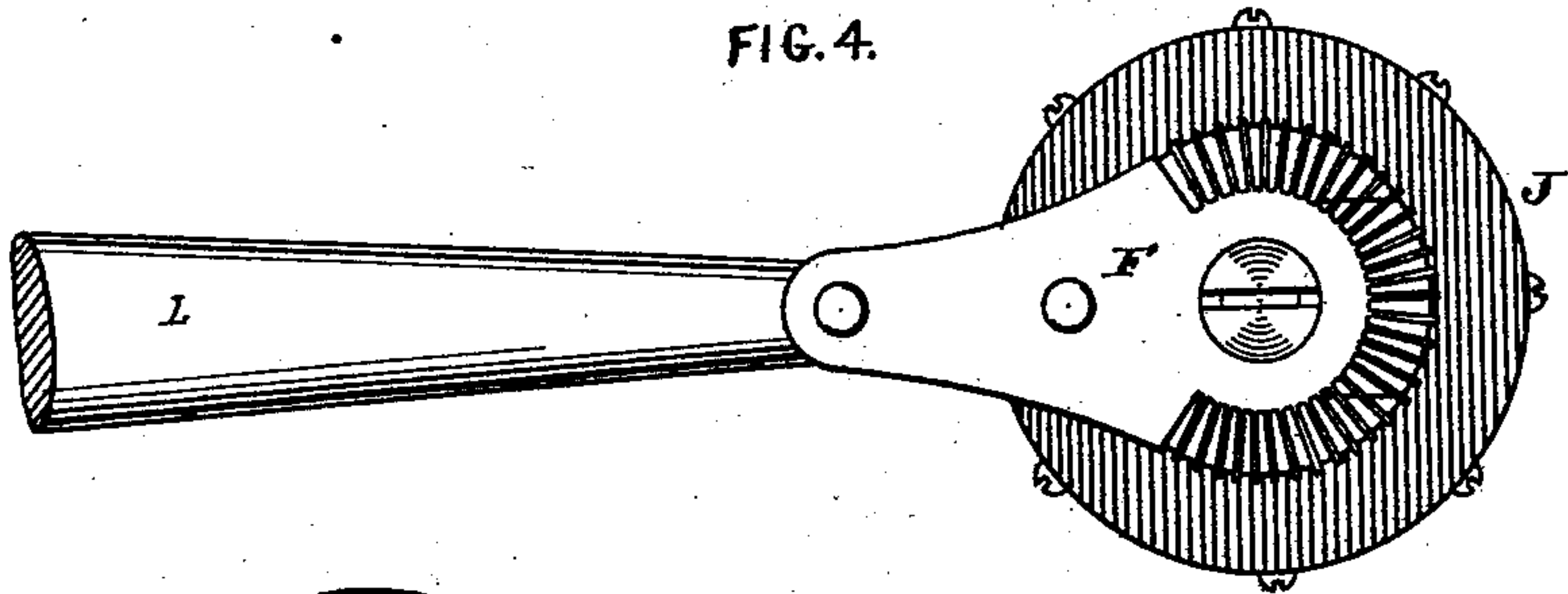


FIG. 5.

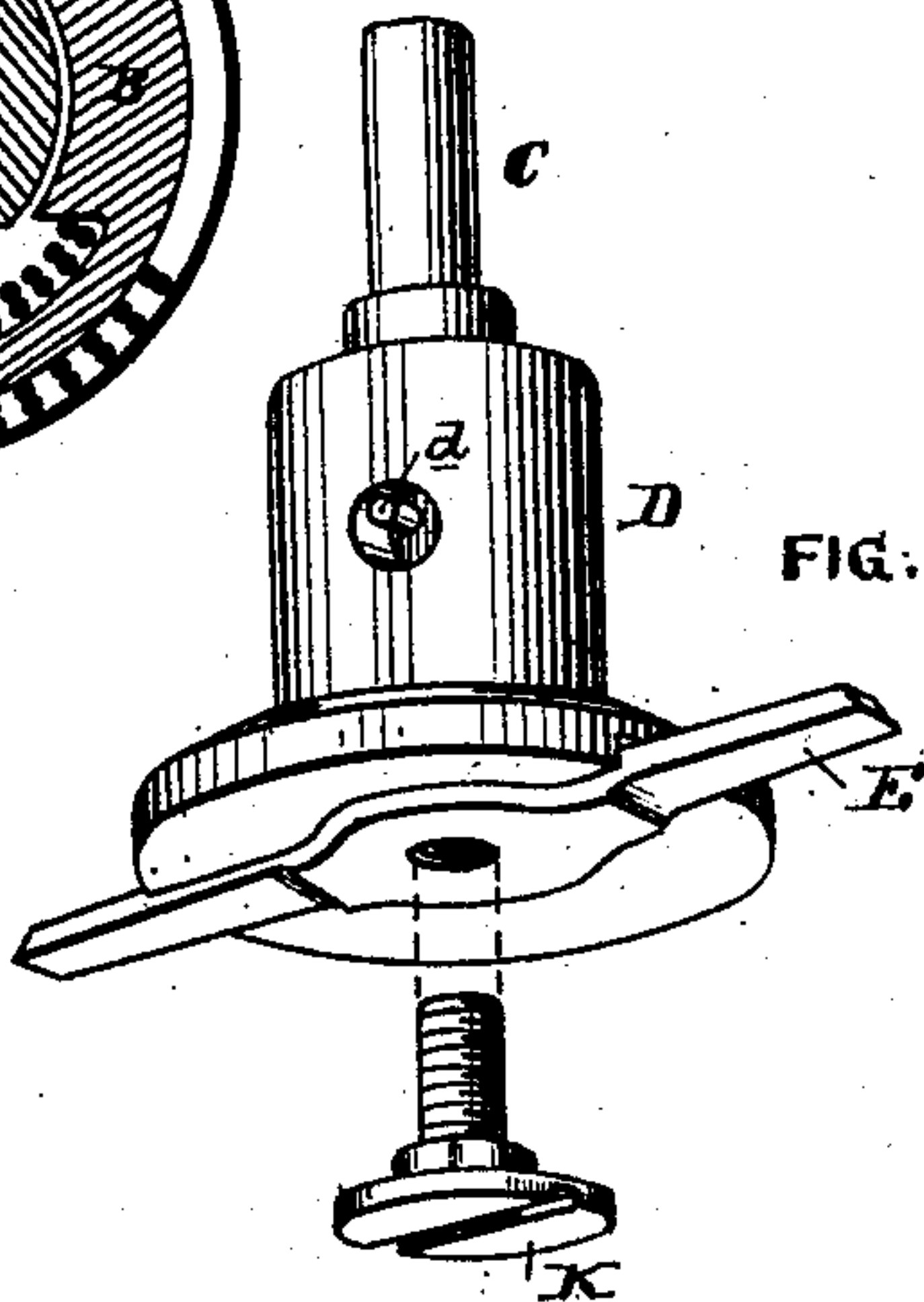


FIG. 3.

FIG. 1.

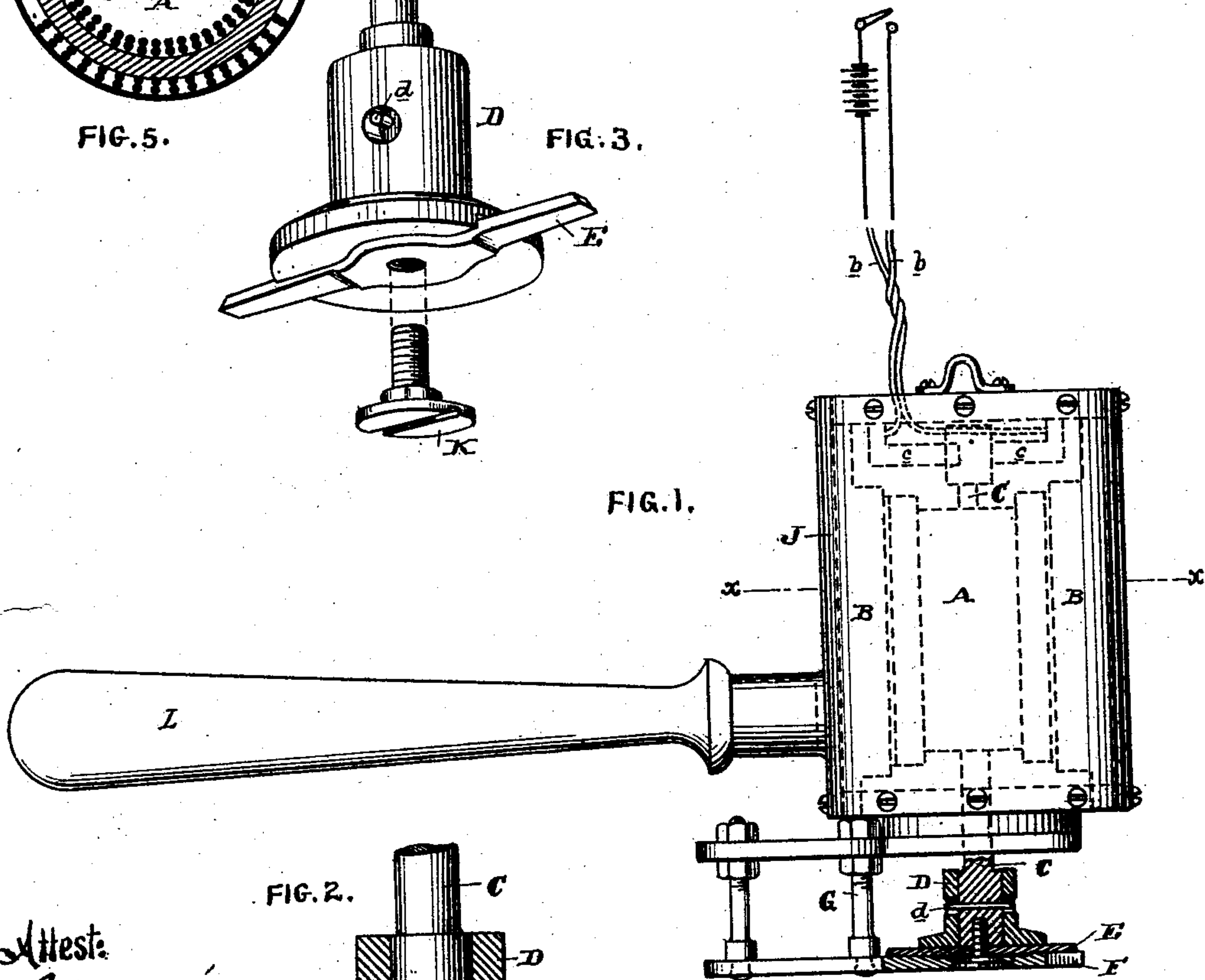
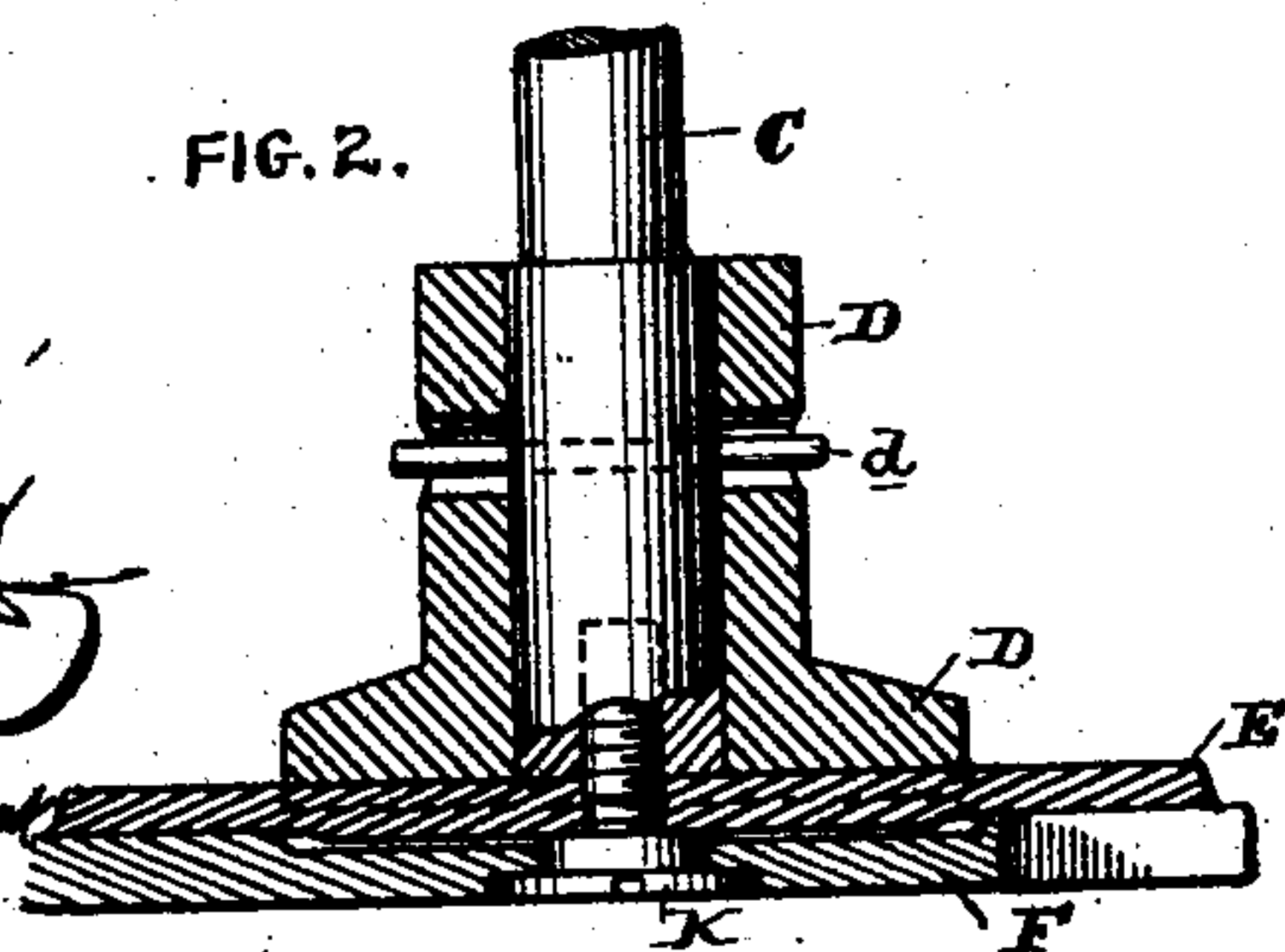


FIG. 2.



Attest:

Howard Quinn
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Inventor:

Russell Thayer
by his attorney
G. J. Hurdin

UNITED STATES PATENT OFFICE.

RUSSELL THAYER, OF PHILADELPHIA, PENNSYLVANIA.

ELECTRICALLY-OPERATED CUTTING DEVICE.

SPECIFICATION forming part of Letters Patent No. 395,524, dated January 1, 1889.

Application filed January 3, 1888. Serial No. 259,652. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL THAYER, a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Cutting Devices Operated by Electricity, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, which form part of this specification.

The object of my invention is to provide a cutting device for cutting and clipping the hair or fur of horses or other animals, and for various purposes, at the same time making a cheaper and more compact tool than heretofore made and readily operated by one person.

My invention consists in cutting devices in which the knives are caused to revolve by means of electricity.

In this application I have shown the knives in connection with a comb for raising the hair or fur of the animal, so that the knife can more readily and smoothly cut the hair; but if the device is to be used for other purposes of cutting the comb may be omitted.

In the drawings, Figure 1 is a view of my cutting device, showing the arrangement of the revolving knife and electric motor. Fig. 2 is a section showing the arrangement of attachment of the knife to the shaft; Fig. 3, a perspective view of knife and shaft, showing the mode of attaching the knife to the shaft; Fig. 4, a plan view of the comb. Fig. 5 is a section through line *x x*, Fig. 1.

A represents the armatures and B the magnets, forming what is known as an "electric motor." The current comes from any desired source through the wires *b b*, which are preferably surrounded by any insulating material, and is transmitted to the motor through and by the electric brushes *c c*.

C is the shaft to which the armature A is attached; D, the sleeve on the shaft C, to which the knife E is attached.

F is the comb over which the knife E is revolved.

G is the frame supporting the comb F and shaft C.

J is the box surrounding the motor; L, the handle of the tool; *d*, the pin which attaches the sleeve D to the shaft C; K, the screw passing through the comb F and supporting the shaft C.

The operation is as follows: The current is sent through the wires *b b* and transmitted to the motor by means of the electric brushes *c c*, causing the armature to revolve, thereby revolving the shaft C and causing the knife E to revolve over the comb F.

I do not limit myself to the exact construction of the knife and comb, as the knife could be made of circular shape, with a series of knives on the circumference. The knives could also be placed between two combs, or the comb need not be used at all. Neither do I limit myself to the specific forms of motor and current source shown and described, as many others could be used without departing from my invention.

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

1. In combination, an electric motor, a knife or series of knives connected to and revolved by said motor, a source of electric-current supply, and means to connect said electric-current supply with the motor.

2. In combination, an electric motor, a knife or series of knives connected to and revolved by said motor, a comb or guard, a source of electric-current supply, and means to connect said electric-current supply with the motor.

In testimony whereof I have hereunto set my hand.

RUSSELL THAYER.

Witnesses:

J. M. JORDAN,
R. R. BATTLE.