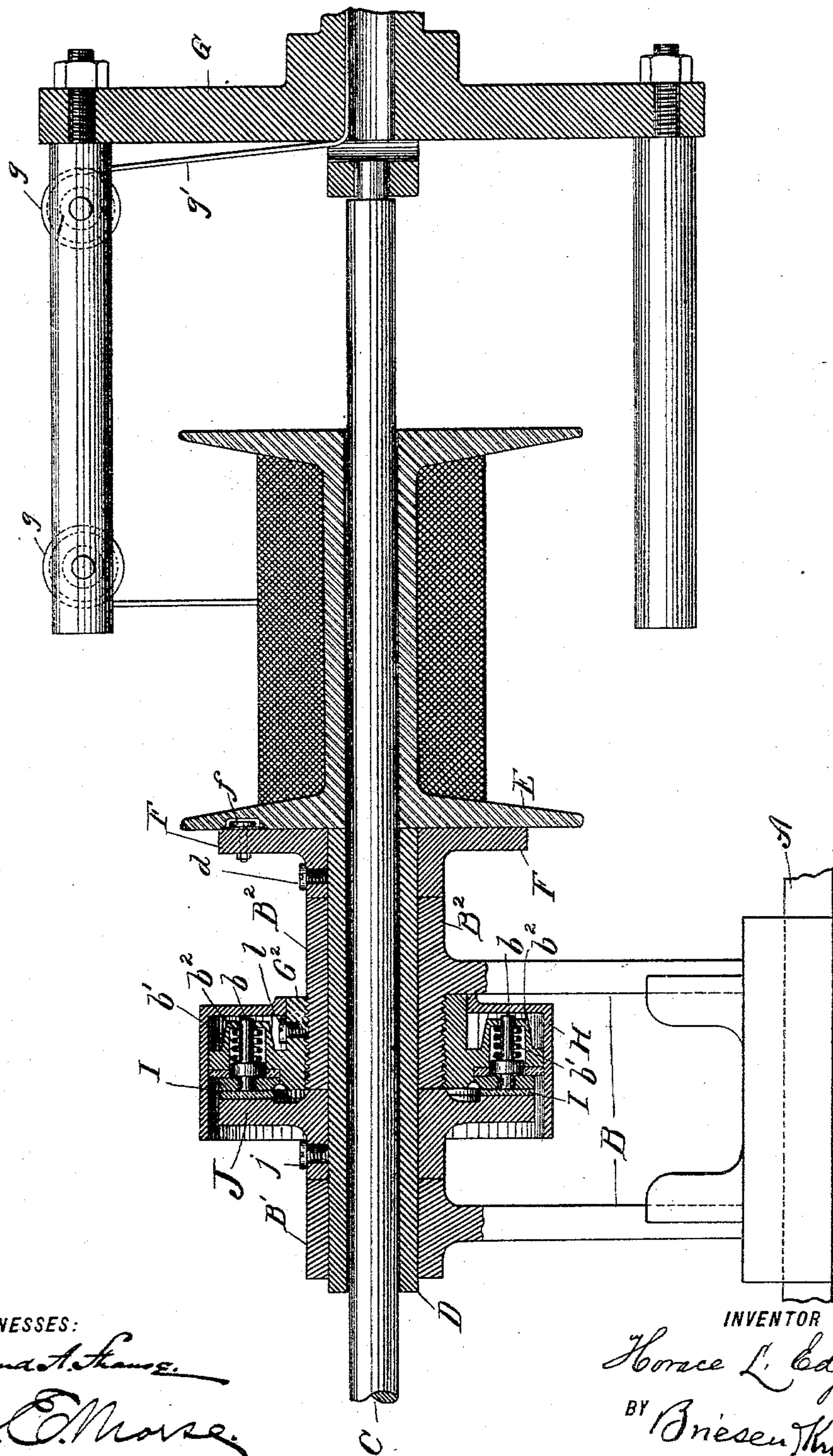


(No Model.)

H. L. EDGE.
JENNY FOR WINDING BOBBINS.

No. 556,843.

Patented Mar. 24, 1896.



WITNESSES:

Edmund A. Stange.

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INVENTOR

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UNITED STATES PATENT OFFICE.

HORACE L. EDGE, OF BROOKLYN, NEW YORK, ASSIGNOR TO THE HEYDRICH, RAFFLOER & COMPANY, OF HAVANA, CUBA.

JENNY FOR WINDING BOBBINS.

SPECIFICATION forming part of Letters Patent No. 556,843, dated March 24, 1896.

Application filed May 21, 1895. Serial No. 550,097. (No model.)

To all whom it may concern:

Be it known that I, HORACE L. EDGE, a resident of the city of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Jennies for Winding Bobbins, of which the following is a specification.

My invention relates to that class of jennies for winding bobbins wherein the bobbin is driven wholly by the thread from the flier; and the object of the invention is to provide a simple, cheap and efficient jenny wherein there is little liability of the parts getting out of order.

To this end my invention consists in the combination and arrangement of parts hereinafter described and claimed.

My invention will be understood by reference to the accompanying drawing, which is a detail sectional side view of a jenny constructed in accordance with my invention.

In the drawing, G is a suitable flier, preferably of the form shown, having the capstan-wheels *g g*, over which the thread *g'* is carried to the bobbin E. This flier-head revolving around the bobbin in laying the thread around it will cause the thread, if the bobbin is otherwise undisturbed, to rotate the same in the direction in which the flier-head moves, but with a less degree of speed. This is effected in the following manner: Mounted upon a slide or traverse table A is a carriage B, which is provided at its upper end with bearings B' B², in which bearings a sleeve D is hung. Passing through the sleeve D is a stationary rod C, upon which the bobbin E is hung, the bobbin being secured to a flanged sleeve F, which is carried upon the sleeve D, being secured thereto preferably by means of a set-screw *d*. The bobbin is secured to the flanged sleeve F by a pin-and-slot device *f*. Mounted upon the sleeve D is a disk J, which is secured to the sleeve in any suitable manner, as by means of a set-screw *j*. This disk, the sleeve D, the flanged sleeve F and the bobbin E all revolve together. Around the bearing B² is rigidly placed a disk or flange G², which carries a washer I, which is pressed toward the face of the disk or plate J by a series

of spring-driven pins *b*, and, according to the degree of tension of these springs, the washer will press with greater or less force against the face of the disk J. The spring-driven pins *b* are preferably carried in a recess *b'* of the disk or flange G², which recess connects with a perforation in the flange G² for the passage of the stem of the pin, the recess *b'* also serving to contain the impelling-spring *b*² of the spring-driven pin. Surrounding the disks is a suitable protecting casing or cover H.

The operation is as follows: The flier rotating will lay its thread upon the bobbin, which bobbin will be driven by the tension of the thread in the direction of rotation of the flier. As the bobbin turns, it turns with it the sleeves F and D and the disk J. This motion of rotation, however, is retarded by the friction of the washer I against the face of the disk J, this friction being regulated by the tension of the spring-driven pins, which force the washer I in the direction of the face of the disk J, the traversing being of course effected in any suitable manner, such as by moving the carriage B upon the slide A.

I am aware that jennies have heretofore been devised wherein a drag was employed for a bobbin which was driven by the thread or twine of the flier, and such I do not claim, broadly; but

What I do claim, and desire to secure by Letters Patent, is—

In a jenny, the combination of a flier, a bobbin wholly driven by the thread from the flier, a rotary disk J driven from the bobbin, a friction-washer I bearing against said rotary disk J, a rigidly-mounted disk G² provided with apertures therein, in which are carried spring-pressed pins *b* adapted to bear upon the friction-washer I and hold the same in engagement with the face of the rotary disk J, and a casing H surrounding said disks J and G² and forming a housing therefor, substantially as described.

HORACE L. EDGE.

Witnesses:

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