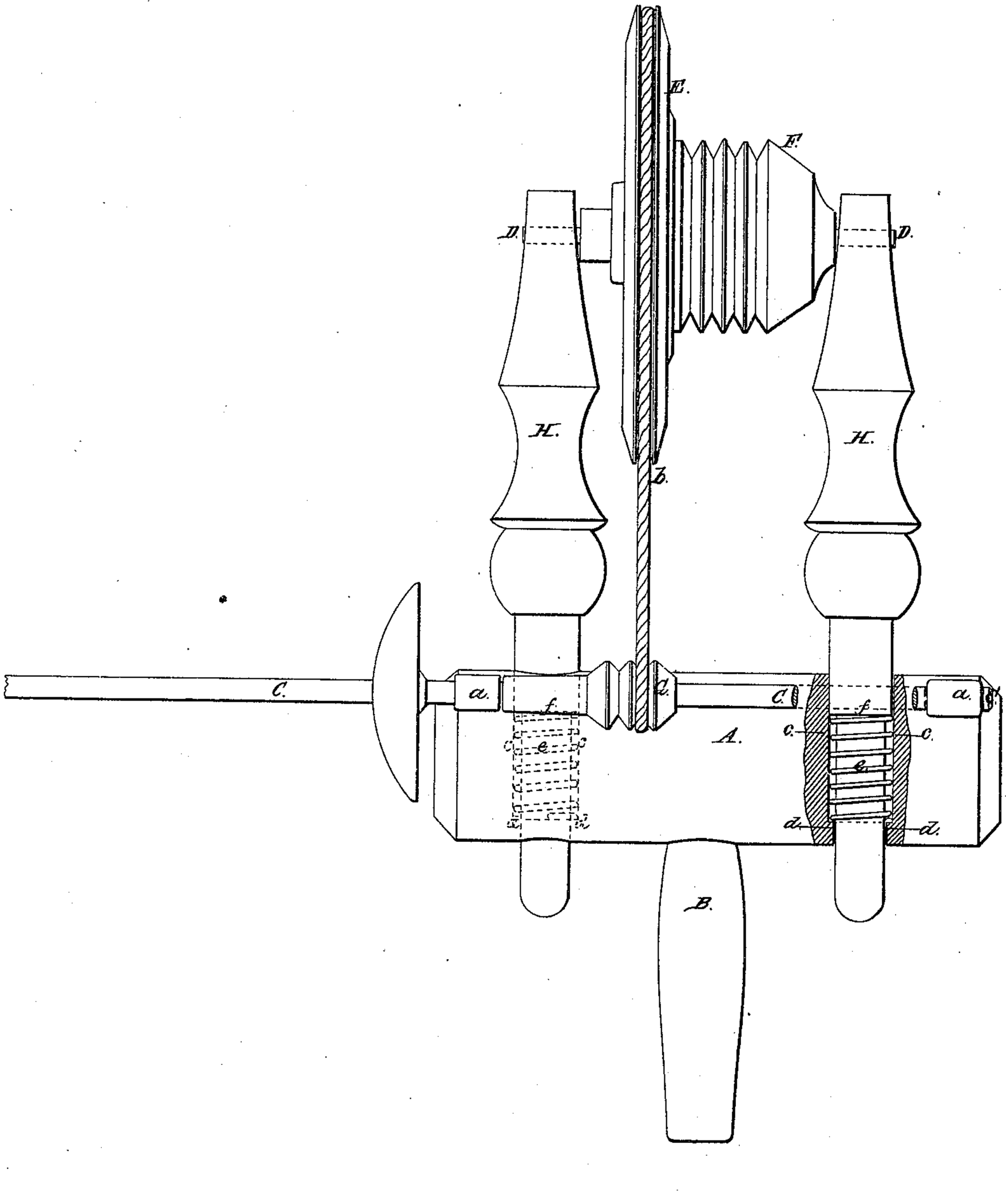
T. D. Hotchkiss.

Domestic Spinning Mach.

No. 44,661. Patented May 10, 1864.



Witnesses.

J. W. Coombs

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UNITED STATES PATENT OFFICE.

T. DWIGHT HOTCHKISS, OF GUILFORD, CONNECTICUT.

IMPROVEMENT IN SPINNING-WHEEL HEADS.

Specification forming part of Letters Patent No. **42,661**, dated May 10, 1864.

To all whom it may concern:

Be it known that I, T. DWIGHT HOTCHKISS, of Guilford, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Spinning-Wheel Heads; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing an elevation, partly in section, of a spinning-wheel head with my improvement.

This invention consists in the substitution of springs for the adjusting-screws commonly employed for tightening the band which drives the spindle, whereby the tension of the said band is adjusted automatically, and the necessity for manual adjustment is dispensed with.

A is the stock of the head, and B the pin attached thereto to secure it to the frame of the spinning-wheel. C is the spindle, and *a a* its bearings, constructed and attached to the stock A in the usual manner. D is the shaft on which is secured the pulley E, around which and the pulley G on the spindle runs the band *b*, which drives the spindle. The said shaft has also fast upon it the usual pulley, F, which receives the band from the spinning-wheel for driving the said shaft. H H are the standards which contain the bearings for the shaft D. The lower parts of these spindles are turned to fit easily into holes *c c*, bored through the stock A for their reception. The upper portions of these holes are made of larger size than the lower positions, to form shoulders *d d*, which serve as bearings for the adjusting springs *e e*, and portions of the standards are turned to fit the upper and larger portions of the said holes, and portions to fit the lower and smaller portions of the said holes having shoulders *f f*, to rest upon the said springs, which are of metal wire, and of spiral construction coiled around the standards, and applied between the shoulders *d d* and *f f*. These springs, acting upon the shoulders *f f*, exert a constant upward pressure upon the standards H, and keep the band *b* tight without any necessity for manual adjustment of the said standards, and the band *b* confines the said standards in place.

India-rubber springs may be substituted for the spiral metal springs *e e*, or any other kind of metal springs may be used—as, for instance, a single curved spring so applied outside of the stock A as to exert an upward pressure upon both standards H H simultaneously.

What I claim as my invention, and desire to secure by Letters Patent, is—

So applying a spring or springs in combination with the standards H H of a spinning-wheel head as to exert an upward pressure on the said standards and preserve a proper tension of the band *b* without the use of screws or any other manual adjustment.

T. DWIGHT HOTCHKISS.

Witnesses:

LUCIUS DUDLEY,

A. H. BENTON.