

(No Model.)

F. H. WHEAT.

THREAD SEPARATOR FOR RING SPINNING MACHINES.

No. 253,140.

Patented Jan. 31, 1882.

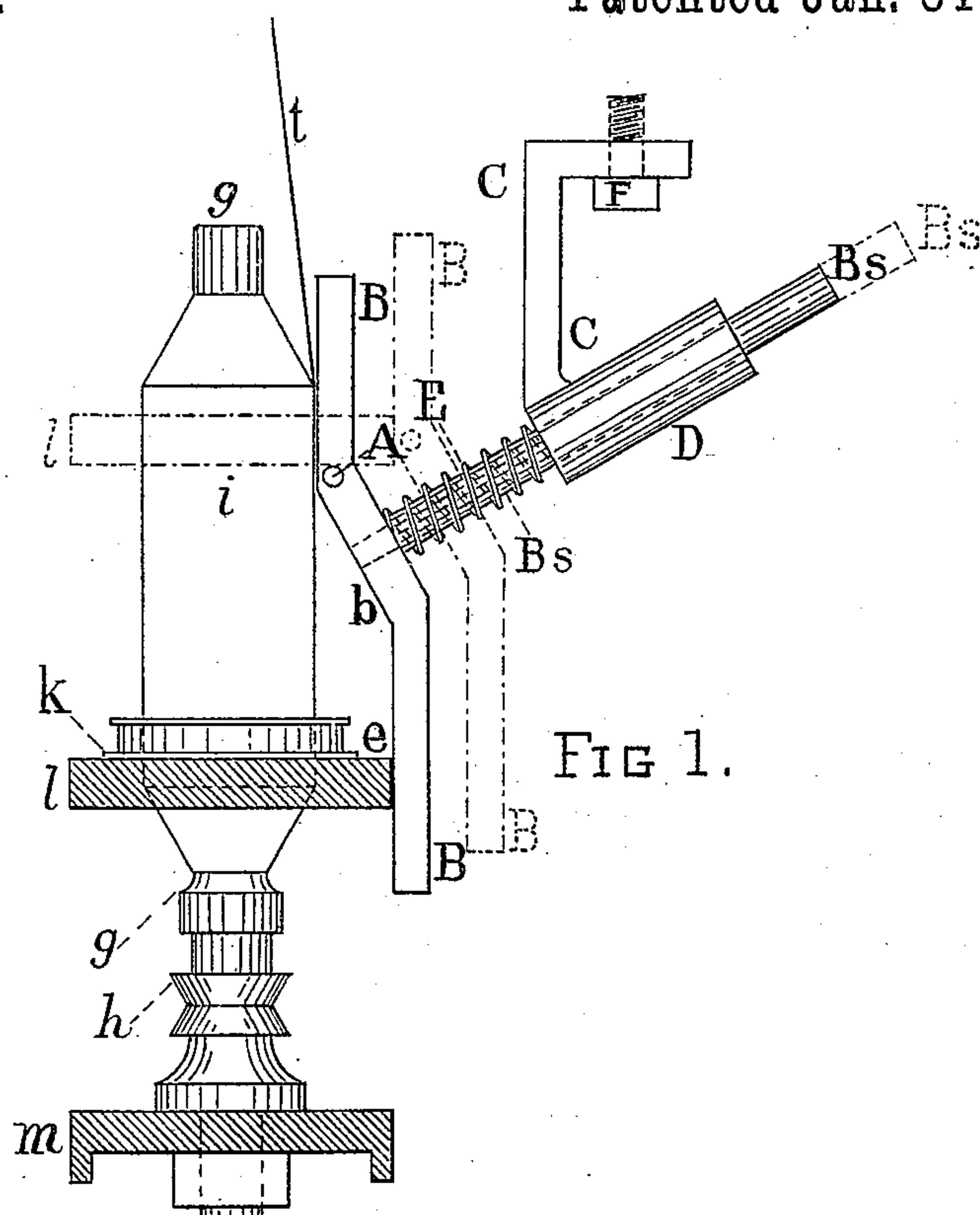


FIG 1.

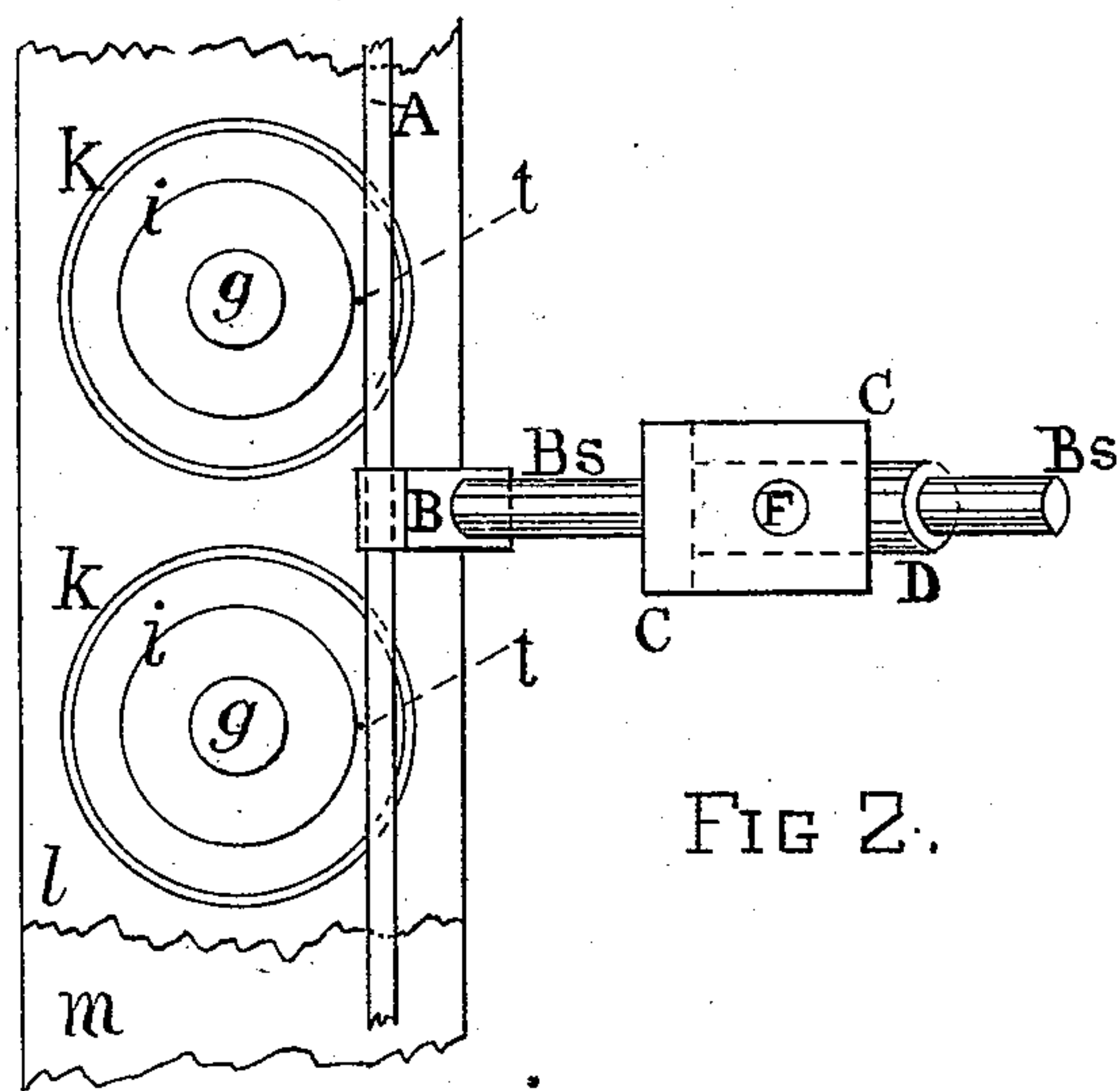


FIG 2.

WITNESSES.

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THREAD-SEPARATOR FOR RING-SPINNING MACHINES.

SPECIFICATION forming part of Letters Patent No. 253,140, dated January 31, 1882.

Application filed September 12, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN H. WHEAT, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Thread-Separators for Ring-Spinning Machines, of which the following is a specification.

My invention consists of a movable separator-wire running transversely to the spindle, said wire being secured to a sliding supporting-piece, said piece sliding radially to and from the spindle, and operated by the contact of the ring-rail in its upward movement against an inclined plane on said supporting-piece.

The invention is fully shown in the accompanying drawings, of which Figure 1 is a transverse section of a spinning-frame with my invention attached thereto. Fig. 2 is a top view of the same, omitting the spiral spring.

In the drawings, A is the separator-wire.

B is the sliding support, operated by the cam or inclined plane *b*.

C is the hanger, through which the stem B *s* of the cammed supporting-piece B slides in the bearing D.

E is a spiral spring on the stem B *s*, and bears against the cammed piece B and the bearing D, and serves to press forward the cam-piece B in case the bearing D should not be inclined sufficiently to produce a positive return-movement of the cam-piece B by its own gravity.

The hanger C may be attached to any convenient part of the frame at the ends, or by auxiliary supports between the ends by the bolt F.

The ordinary parts of the spinning-machine

shown in the drawings in combination with my device are represented by *g*, (the bobbin,) *h*, (the spindle,) *i*, (the thread wound on the bobbin,) *k*, (the ring,) *l*, (the ring-rail,) and *m* (the spindle-rail.) *t* is the single thread passing onto the bobbin, and bearing against the separator-wire A.

I explain the operation of my invention and the advantages thereof as follows:

It will be seen that the ring-rail *l*, in its upward movement from the position shown in the drawings by the full lines to the position shown by broken lines, will move the piece B and its stem B *s*, together with the wire A, upward, and from the bobbin *g*, by its contact with the inclined plane *b*, to the position of said B and B *s*, shown by broken lines. Now, the advantages of this moving of the separator-wire up and from the bobbin, as shown and described, are that the said wire A, which serves to separate the threads to each bobbin and prevent collision thereof, is got out of the way of the bobbin during the time when it is not required for use, and is thus more convenient to the operator, and prevents damage to the said wire. It also allows the use of a larger and more substantial wire through the mobility of the cam-piece B with its wire A.

I claim—

The combination, with the hanger C D and the ring-rail *l*, of the support B, having the inclined portion *b*, the sliding stem B *s*, and the separator-wire A, as set forth.

FRANKLIN H. WHEAT.

Witnesses:

L. J. CHERRINGTON,
JOHN R. LEZOTT.