

J. B. BANCROFT.

BOBBIN-SUPPORTERS FOR YARN SPOOLING-MACHINES.
No. 172,548.

Patented Jan. 25, 1876.

Fig. 1.

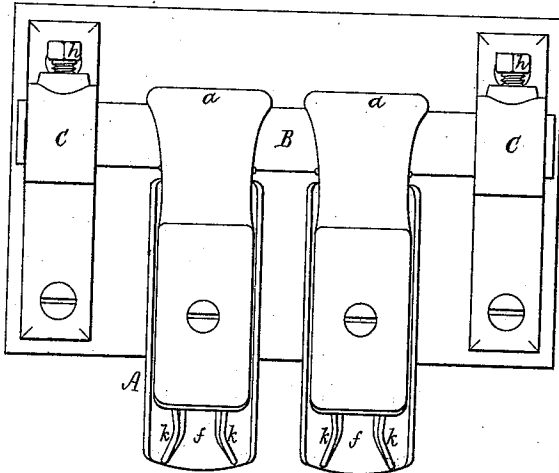


Fig. 3.

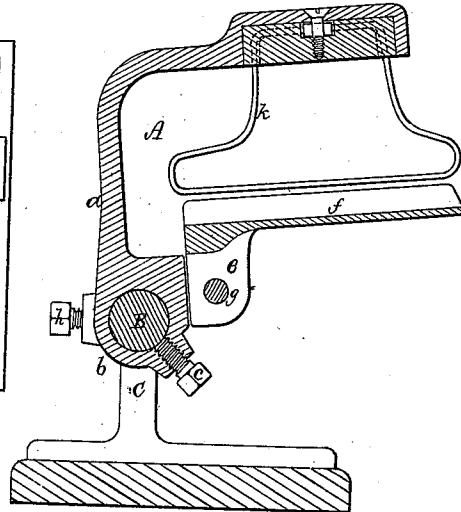


Fig. 4.

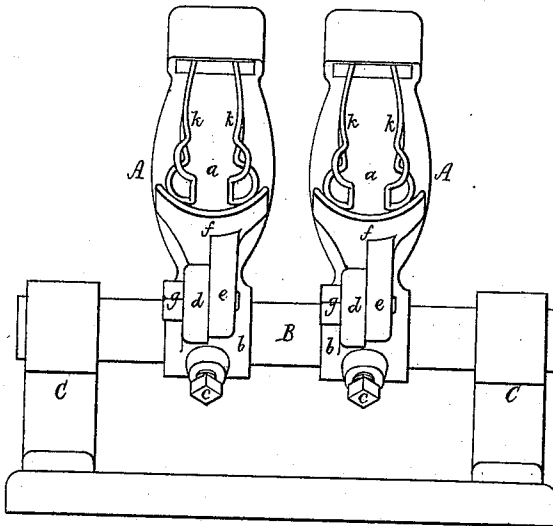


Fig. 2.

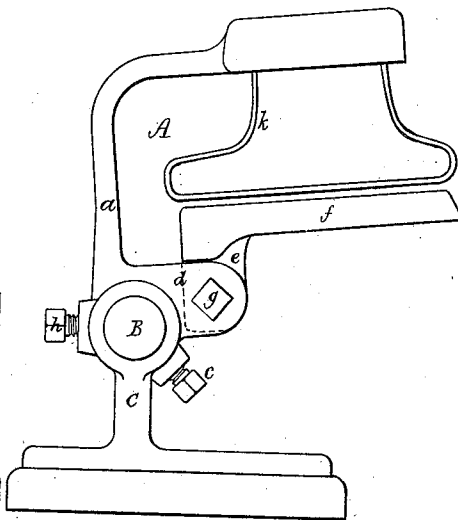
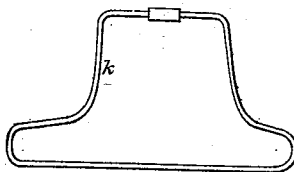


Fig. 5.



Witnesses.

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L. W. Miller.

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by his attorney.
R. H. Eddy.

UNITED STATES PATENT OFFICE.

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IMPROVEMENT IN BOBBIN-SUPPORTERS FOR YARN-SPOOLING MACHINES.

Specification forming part of Letters Patent No. 172,548, dated January 25, 1876; application filed
December 9, 1875.

To all whom it may concern:

Be it known that I, JOSEPH B. BANCROFT, of Hopedale, of the county of Worcester and State of Massachusetts, have made a new and useful Invention having reference to Bobbin-Supporters of Machines for Spooling Yarn; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Fig. 2 an end elevation, Fig. 3 a transverse section, and Fig. 4 a front view, of a series of bobbin-supporters provided with my invention. Fig. 5 is a separate side view of one of the gravitating lip carrying-arms of one of the said supporters.

The main purpose of my invention is to enable a series of the bobbin-supporters of a spooling-machine to be all adjusted at once, or to be separately adjusted, to proper inclinations, as occasion may require; also, to have the bobbin trough or rest fastened to the carrying-arm by a clamp-screw separate from that by which the said arm is held to its support-piece, it having been heretofore customary to connect the arm, the rest, and the supporter by a single clamp-screw going through all of them. Loosing the nut of said screw in order to adjust the rest, loosened the connection of the carrying-arm and the support-piece, and rendered the said arm liable to fall out of place; but with my improvement such cannot occur.

My invention or improvement in a spooling-machine consists in the combination of a cylindrical sustaining-rod, its standards or supports, and clamp-screws, with a series of bobbin-supporters applied to said rod, and provided with clamp-screws, all being as herein-after specified, and as represented.

My invention further consists in such bobbin-supporter not only having the carrying-arm or goose-neck of its gravitating lips provided with a collar, clamp-screw, and ear, but having the bobbin-rest provided with a separate ear, and secured to such goose-neck ear by a separate clamp-screw, all being as described and shown.

In the drawings, A A are two bobbin-supporters, both being sustained by a cylindrical

rod, B. The foot or lower part of the gravitating lips, carrying arm *a* of each of said supporters, is a cylindrical ring or collar, *b*, through which the rod B passes, there being to such collar a clamp-screw, *c*, which is screwed laterally into it and against the rod. Furthermore, there projects from the collar *b* an ear, *d*, to which another ear, *e*, extending down from the bobbin-rest *f*, is fastened by another clamp-screw, *g*, which goes through the ear *d*, and screws into the ear *e*, one of said ears being arranged alongside of the other, as shown. The shank of the screw *g* is of necessity cylindrical; consequently the inclination of the bobbin-rest *f* may be varied, and the rest be clamped in position without varying that of the arm or goose-neck *a* relatively to the shaft B. The sustaining-rod B is so supported by and in standards C C as to enable it to be revolved in them, it being held to each by a clamp screw, *h*, screwed into the standard and against the rod. The pendulous lips are represented at *k k* as suspended from the goose-neck or carrying-arm by means of a bearing-block of wood inserted in a pocket in the head of the said neck.

From the above it will be seen that not only can each of the bobbin-supporters A A be adjusted on its rod independently of and at its proper distance from the other, but all can be moved at once by turning the rod in its supports; also, that the bobbin-rest of each supporter A can also be removed from the ear *d* without disturbing the connection of the goose-neck with its support-piece, all of which are matters of much importance in a spooling-machine, in order to effect the proper inclination of the bobbins.

The bobbin-supporter shown in the drawings is very like that represented in the United States Patent, No. 159,053, to Asel M. Wade, in which the bobbin-rest and the goose-neck are both applied to one sustaining-arm, and connected thereto by a single screw and nut. To adjust either part their connection has to be loosened, whereby an attempt to adjust the bobbin-rest would disturb the adjustment of the goose-neck, and vice versa. In my bobbin-supporter the bobbin-rest, by being sustained

by means independent and separate from such as are used to support the goose-neck, can be removed, as described, without disturbing the screw *e* or means by which the part *a* is held to the shaft B.

I claim as my invention in the bobbin-supporter of a spooling-machine as follows, viz:

1. The combination of the rotary cylindrical sustaining-rod B, its standards C C, and clamp screw or screws *h*, with a series of bobbin-supporters, A, applied to such rod in the manner herein described, and provided with clamp-screws *e e* to operate against it, all substantially as specified.

2. Each bobbin-supporter having its goose-neck or lips, carrying arm *a*, provided with a collar, *b*, clamp-screw *c*, and ear *d*, in combination with the bobbin-rest *f*, provided with an ear, *e*, and a clamp-screw, *g*, whereby the ear *e* is fastened to the ear *d*, all being essentially as set forth.

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Witnesses:

R. H. EDDY,
J. R. SNOW.