

N. I. ALLEN.

BOBBIN SUPPORTERS OF SPOOLING-MACHINES.

No. 179,672.

Patented July 11, 1876.

Fig. 1.

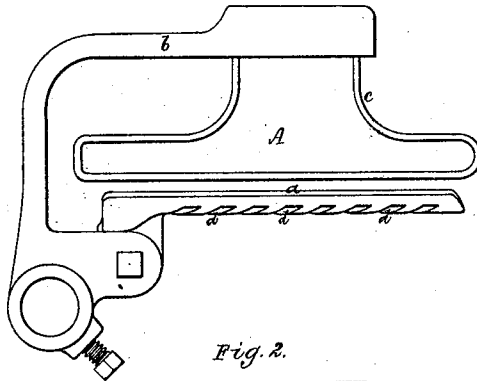


Fig. 2.

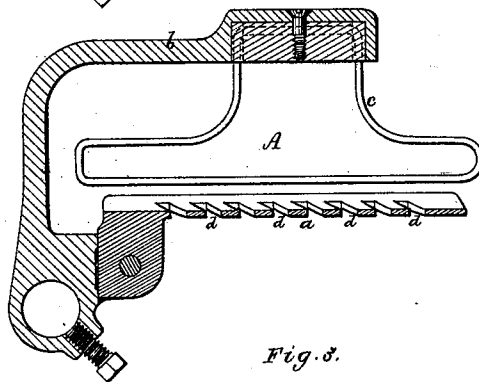


Fig. 3.

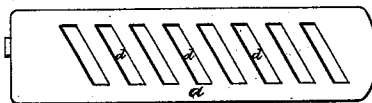


Fig. 4.



Fig. 5.

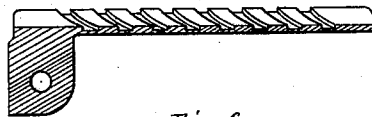


Fig. 6.

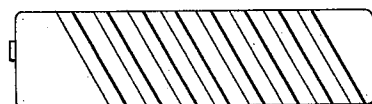
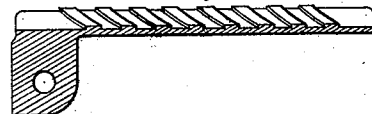


Fig. 7.



Witnesses

S. W. Piper.

L. M. Miller.

Nicholas I. Allen.

by his attorney

R. H. Eddy

UNITED STATES PATENT OFFICE.

NICHOLAS I. ALLEN, OF HOPEDALE, MASSACHUSETTS, ASSIGNOR TO
GEORGE DRAPER & SON, OF SAME PLACE.

IMPROVEMENT IN BOBBIN-SUPPORTERS OF SPOOLING-MACHINES.

Specification forming part of Letters Patent No. **179,672**, dated July 11, 1876; application filed
April 13, 1876.

To all whom it may concern:

Be it known that I, NICHOLAS I. ALLEN, of Hopedale, of the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in 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 denotes a side elevation, and Fig. 2 a longitudinal section, of a bobbin-supporter with my improvement. Fig. 3 is a top view of the bobbin-rest.

My invention consists in the bobbin-rest as constructed with, or having, a series of grooves, ribs, or slots arranged in it obliquely to its axis or that of revolution of the bobbin, such additions being to keep the bobbin, while in revolution, back upon its rest, and also to remove from the yarn-load motes or extraneous matters, or excrescences incident thereto, or that may be collected therein or thereon.

In the drawings, A represents a bobbin-supporter of the kind now in use in spooling-machines, its bobbin-rest being shown at *a*, goose-neck at *b*, and pendulous lips at *c c*. The series of oblique slots of the said bobbin-rest is

represented at *d d*, &c. In the place of such slots, grooves or ribs may be used; but, although they answer to keep the bobbin from slipping forward on its rest, and to remove motes or extraneous matters from the yarn-load of the bobbin while it may be in revolution, they will not discharge such matters from the said rest so effectually as will the slots, which, consequently, are preferable.

Fig. 4 of the drawings represents a top view, and Fig. 5 a longitudinal section, of the yarn-rest as provided with oblique grooves instead of slots. Fig. 6 shows a top view, and Fig. 7 a longitudinal section, of a yarn-rest as having oblique ribs instead of slots.

I therefore claim—

As my improvement in the spooling-machine bobbin-supporters, the bobbin-rest thereof as made or provided with slots, ribs, or grooves, arranged obliquely with respect to its upper surface, all substantially as and for the purpose or objects specified.

NICHOLAS I. ALLEN.

Witnesses:

E. D. BANCROFT,
W. S. BANCROFT.