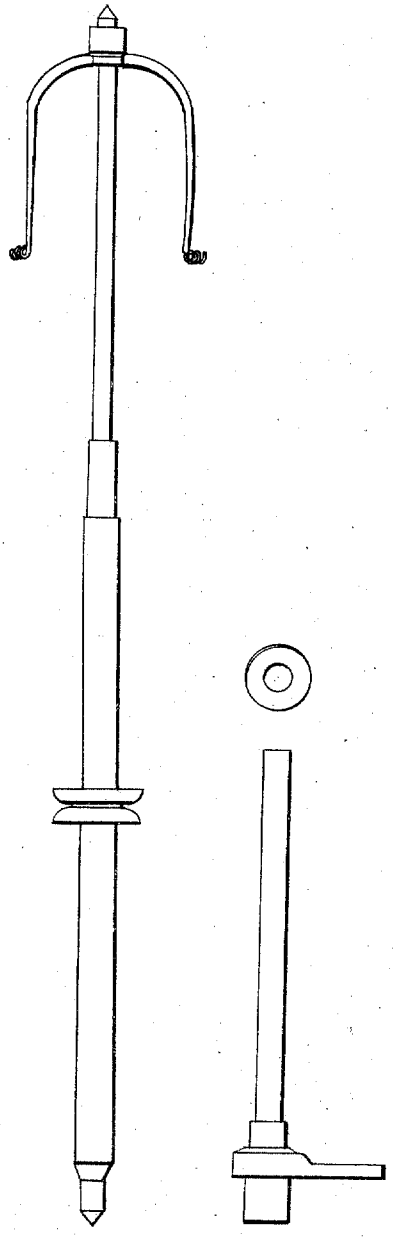
No Printed Specification Available

7279X

N. Rider.

Spindle.

Patented Nov. 3, 1832.



N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

7279X Nov 3 1832 429

Nathaniel Rider. Dudley. Mass.

Letters Patent

The Schedule referred to in these Letters Patent and making part of the same containing a description in the words of the said Nathaniel Rider himself of his improvement in the cotton spindle

To all to whom these presents shall come. Be it known that I Nathaniel Rider of Dudley in the County of Worcester and Commonwealth of Massachusetts have invented a new and useful improvement in the cotton spindle which is commonly called the bare spindle for spinning cotton yarn now in common use and that the following is a full and exact description of the construction and operation of the said improvement as invented or improved by me

The improvement consists of a polished cylindrical tube or hollow spindle made of iron, steel or any other metallic substance either by drilling out the same or by forging from sheets - said tube or hollow spindle to be about six inches & five eighths of an inch in length and at the bottom part thereof to be about half an inch in the outer or external diameter and to continue the same diameter upward about one inch & one fourth of an inch and the remaining part of said tube upward to be about seven sixteenths of an inch in its external diameter. The internal or inner diameter of said tube is to be about 5/16 ths of an inch at the top and 3/8 ths of an inch at the bottom or the said tube or hollow spindle may be of any other diameter or dimensions to fit or apply it to the common spindle now in use and the said tube is constructed as to form a close but free collar at the top mark or called of the common bare spindle and the bottom part of said tube or hollow spindle embracing the lower or neck of said bare spindle extending through the cotton now used on the bare spindle but not so far as to rest or bear upon the bean Moulder of the bare spindle. The cotton now in use on

Specification

closing and confining the said tube or hollow spindle so that the said tube cannot turn within the same. This tube or hollow spindle placed on the common bare spindle is intended to be stationary and from a sheath over the common bare and main spindle from the lower shoulder next above the whirl in the common spindle to the top shoulder where the flyer of said common spindle is [illegible] is screwed on the bobbin or spool, which receives the yarn is placed on & over the tube or hollow spindle in the same position & manner it is usually placed on the common bare spindle to receive the yarn issuing and falling on said tube or hollow spindle as it does on the bare spindle would on the common bare spindle without the tube and thus by means of the spool or bobbin running on the tube instead of the common bare spindle a friction is created which gives it an easier & more steady draft and there is more certainty of its receiving the yarn (especially upon an accelerated motion of the spindle) than when placed directly upon the bare spindle in the usual manner. The washer instead of the one now in use on the common bare spindle under the spool or bobbin should be of small dimensions and so small as to create the least possible friction & is to be made of steel iron or any other metallic substance.

What I claim as new and as my own invention or discovery in the above described tube or hollow spindle & for which & the use of which I ask an exclusive privilege is the particular form of the tube made and constructed of the material above named the manner of affixing it to the common bare spindle and the consequent operation of the spool while in the act of filling & the metallic washer as before described

Nathaniel Rider

Witness
H. Le. N. C. Ely
John Swift

(Patented 3 November 1832)