

J. B. Bancroft,

Spindle Lubricator.

N^o 65,530.

Patented June 11, 1867.

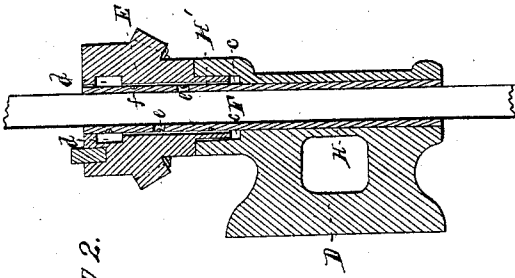


Fig 2.

Fig 4.

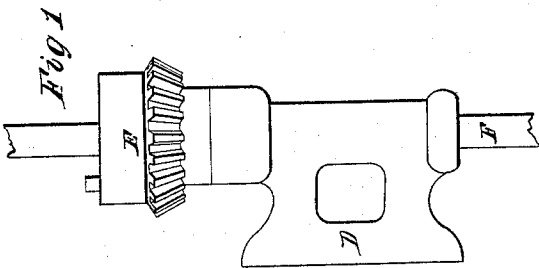
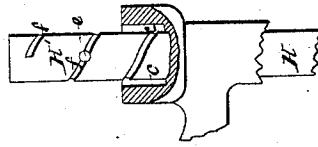
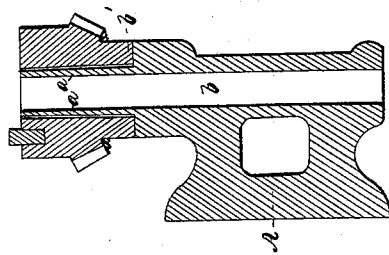


Fig 1

Fig 3.



Witnesses.

Samuel R. Dyer?
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Inventor.
Jos. B. Bancroft
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United States Patent Office.

JOSEPH B. BANCROFT, OF HOPEDALE, MASSACHUSETTS.

Letters Patent No. 65,530, dated June 11, 1867.

IMPROVEMENT IN LUBRICATORS FOR SPINNING MACHINES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL PERSONS TO WHOM THESE PRESENTS SHALL COME:

Be it known that I, JOSEPH B. BANCROFT, of Hopedale, in the county of Worcester, and State of Massachusetts, have invented a new and useful Improvement in Spinning Mechanism; and I 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 side elevation; and

Figure 2, a vertical section of a spindle and the flyer or driving-gear and supporting bracket with my invention applied to them.

Figure 3 is a section of the bracket and the gear as usually made and applied together.

In the last-mentioned figure the spindle bracket is shown at A as provided with a cylindrical neck, *a*, which, with the bracket, is bored vertically, as shown at *b*, to receive and support the spindle. The gear, *c*, for revolving the flyer, encompasses and turns on the neck *a*, and rests on a shoulder, *b'*. When the bearing surfaces of the neck *a* and bore *b* require lubrication, it is customary to pour oil upon the upper ends of the neck and the gear. In carrying out my invention I provide the bracket D (see figs. 1 and 2) with an annular chamber, *e*, formed on its upper end and around the neck H', which I prefer to make a cylindrical tube of copper or composition metal, to extend through the bracket in manner as shown at H in fig. 2. I form also within the upper part of the fly or driving-gear, E, an annular chamber *d*, to encompass the neck H'. The gear E may extend a short distance into the oil-chamber *e*, if desirable. Through the neck H' I make two or any other proper number of holes, *e*, for the conveyance of oil from the chamber *e* into the bore of the said neck, and upon the spindle F, when therein. I also form in the external surface of the neck *a*, helical groove *f*, to extend from one of the oil-chambers *e* *d* to the other of them, the hole or holes *e* being led into such groove. Figure 4 exhibits a side view of the neck H' with such groove therein. The groove *f*, instead of being formed in the neck, may be made in the bore of the gear E, so as to extend downward from the chamber *d* to the chamber *e*. If desirable, there may be another such helical groove formed within the bore of the tube H H', and such groove may be filled with cotton, wool, or other fibrous material which will absorb oil. By means of the chambers *e* *d*, the helical groove *f*, and the hole or holes *e*, I am enabled, when oil is within the chamber *e*, and the gear is in revolution, to keep the bearing surfaces of the tube H H' well lubricated, for the oil will be forced from the chamber *e* through the groove *f* and the hole or holes *e*, and also into the chamber *d*, which will arrest it and aid in preventing it from flowing out upon the top of the gear.

I claim as my invention—

The combination and arrangement of the oil-chambers *e* *d*, the groove *f*, and the hole or holes *e*, with the bracket D, the neck H', and the gear E, the whole being substantially as described

JOSEPH B. BANCROFT.

Witnesses:

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