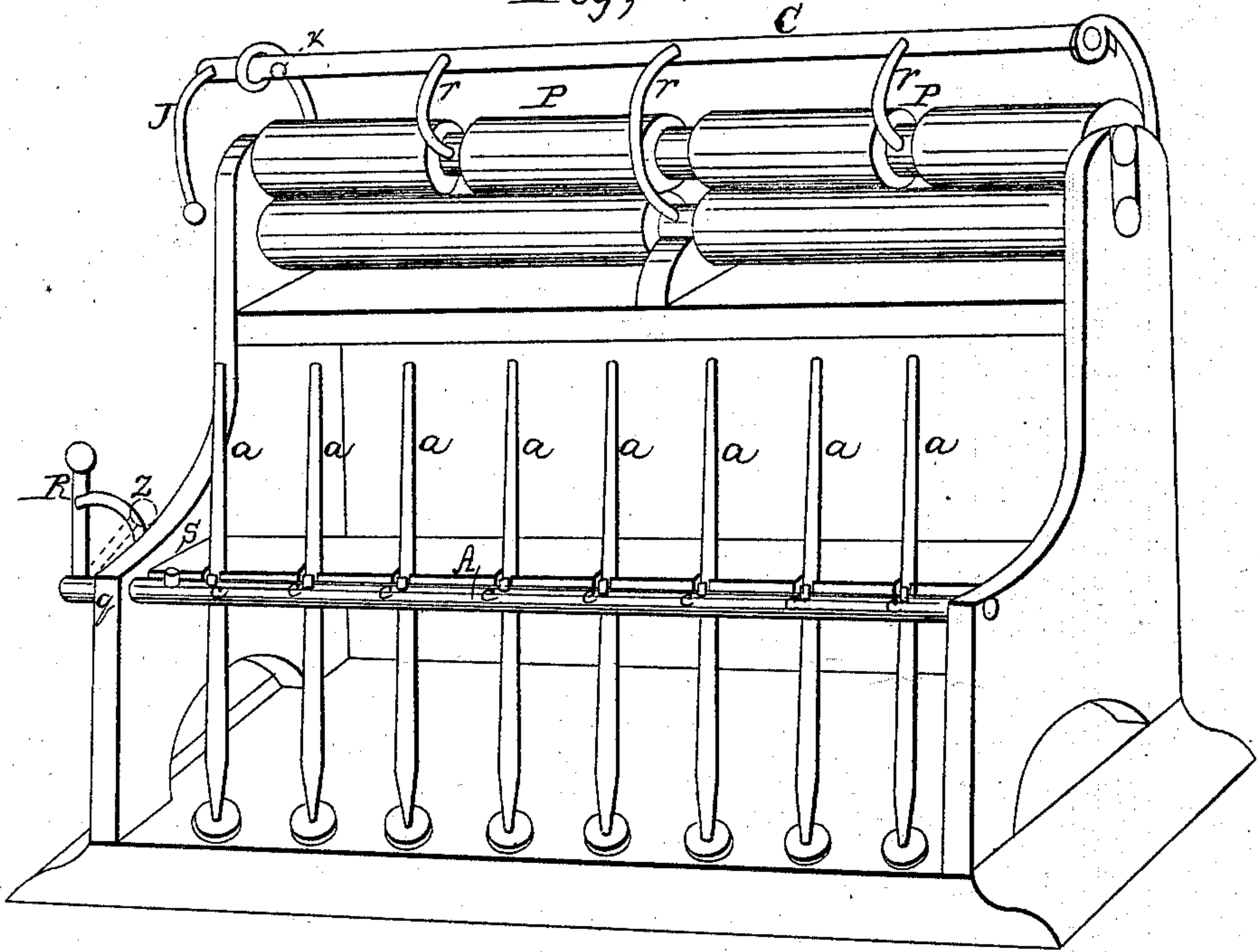
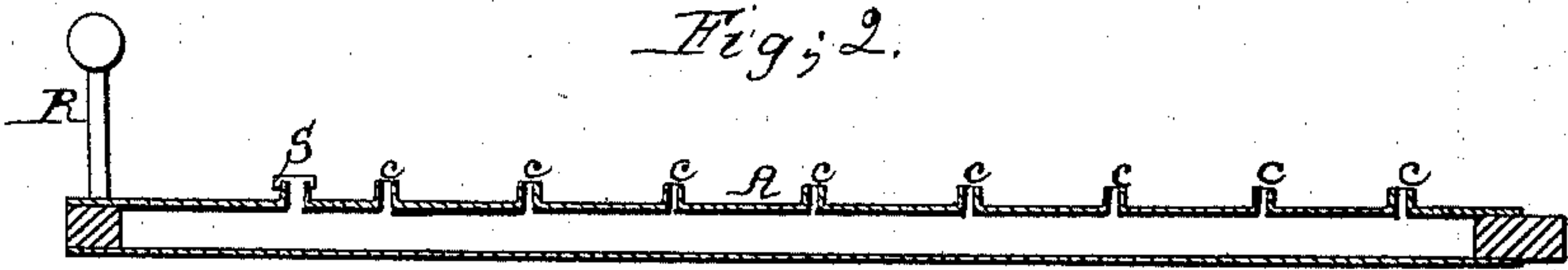


*S. H. Barber,*  
*Spindle Lubricator,*  
*No. 61,915, Patented Feb. 12, 1867.*

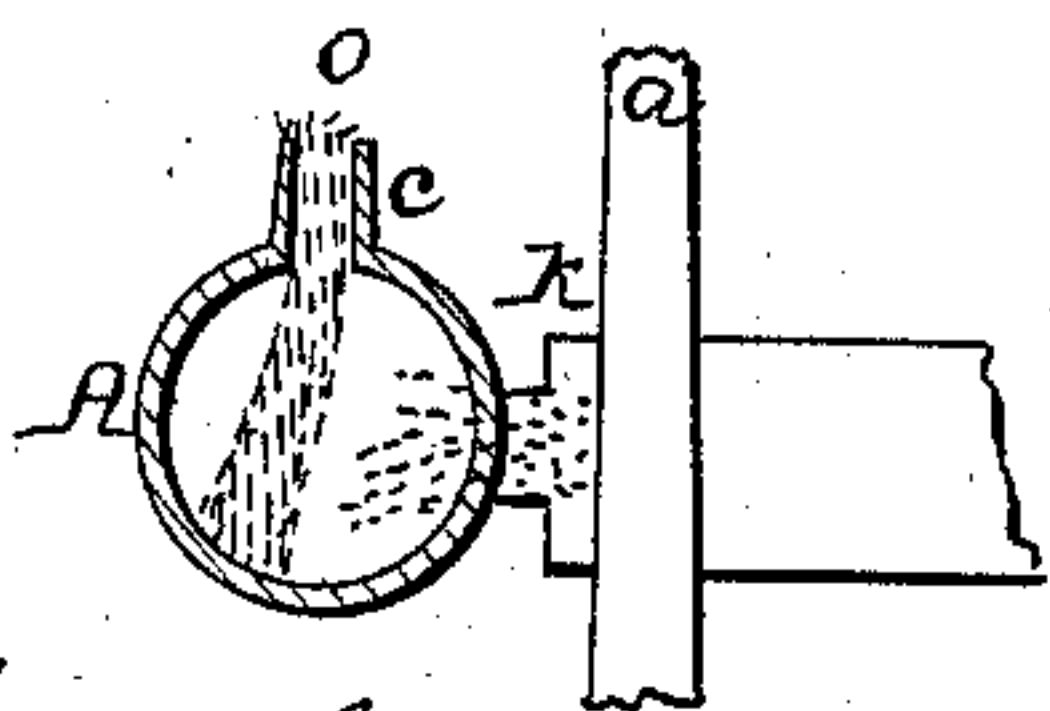
*Fig; 1.*



*Fig; 2.*



*Fig; 3.*



*Witnesses;*  
*Benjamin Arnold*  
*Horace W. Foster*

*Inventor*  
*Samuel H. Barber*



# United States Patent Office.

SAMUEL H. BARBER, OF EAST GREENWICH, RHODE ISLAND.

*Letters Patent No. 61,915 dated February 12, 1867.*

## IMPROVEMENT IN DEVICES FOR OILING SPINDLES, TOP ROLLS, &c., OF SPINNING AND OTHER MACHINERY.

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

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, SAMUEL H. BARBER, of East Greenwich, in the county of Kent, and State of Rhode Island, have invented a new and improved Mode of Oiling the Bearings of Spindles, Top Rolls, &c., in machinery used for manufacturing cotton, wool, and other material; and I do hereby declare the following to be a full and correct description thereof, reference being had to the accompanying drawings, forming part of this specification, and to the letters of reference marked thereon. The same letters refer to similar parts in all the figures.

Figure 1 is a perspective view of a spinning machine with the arrangement for oiling applied to the spindles and top rolls.

Figure 2 is a longitudinal section of one of the oil tubes.

Figure 3 is an enlarged cross-section of a tube and spindle bearing.

To construct my improved arrangement for oiling, take a tube, A, and make holes in its side at a proper distance apart to correspond with the bearings to be oiled, to which holes are fitted short tubes, (in some cases the holes will answer the purpose,) *c c c*, in which are placed wicks, or the ends of the tubes may be made small enough to retard the flow of the oil. This tube A is placed contiguous to the part to be oiled, and rests in suitable bearings, *q*, at its ends, and when the length of machine requires it, intermediate bearings may be put anywhere between the ends to hold the tube up in line. A represents a tube for oiling the spindle bearings, and C a tube to oil the bearings of the top rolls P P. These tubes A C are filled with oil through the opening S X. The arms R J are secured to the tubes, to turn them over towards the bearings and bring the ends of the small tubes, or the wicks in them, in contact with the bearing of the spindles *a* and top rolls P, and so oil them without wasting the oil. The arms R J may be connected with the machine, so as to be moved at regular intervals, thus making it an automatic oiler; or they may be moved by the hand of the operative who attends to the machine.

The operation is as follows: The tube A is filled with oil, and when the bearings are supposed to require lubricating, the handle R is turned over in the direction shown by the dotted line in fig. 1. This brings the ends of the small tubes *c c*, with the wicks in them, down into the openings K made in the front of the bolsters to receive them, so that the wicks, which conduct the oil from the inside of the tube A, shall press against the spindles and oil them. The operation of the tube in the case of the top rolls and other bearings is the same in principle. This arrangement for oiling has great advantages over the usual way of oiling with a single feeder or can: first, in oiling the bearings more perfectly; second, in saving of time; for where there are hundreds of spindles in a machine, a good deal of time must be occupied in oiling each one separately, or the operation is likely to be performed very negligently. A great saving of oil is accomplished, as each bearing has just enough given it, and no more, and this prevention of the use of an excess of oil saves the coverings of the top rolls from the usual damage done to them by the oil, and also prevents injuring the goods manufactured by the same cause. The tube *r'*, in fig. 1, is represented as oiling the bearing of the bottom roll.

It will be readily understood from the above description that this plan of oiling bearings is of value for machinery working on nice material, such as lace and worsted, where an excess of oil would damage the goods manufactured, as well as for machines having a great number of bearings.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

I claim the combination of the tubes, constructed and operating substantially as described, with the various machines used for manufacturing cotton, wool, and other material, for the purpose and substantially as herein set forth.

SAMUEL H. BARBER.

Witnesses:

HORACE N. FOSTER,  
BENJAMIN ARNOLD.