No. 854,975. PATENTED MAY 28, 1907.

B. M. WILLIAMSON & W. B. RIPLEY.

LUBRICATING MEANS.

APPLICATION FILED MAY 3, 1906.

Fig. 1.

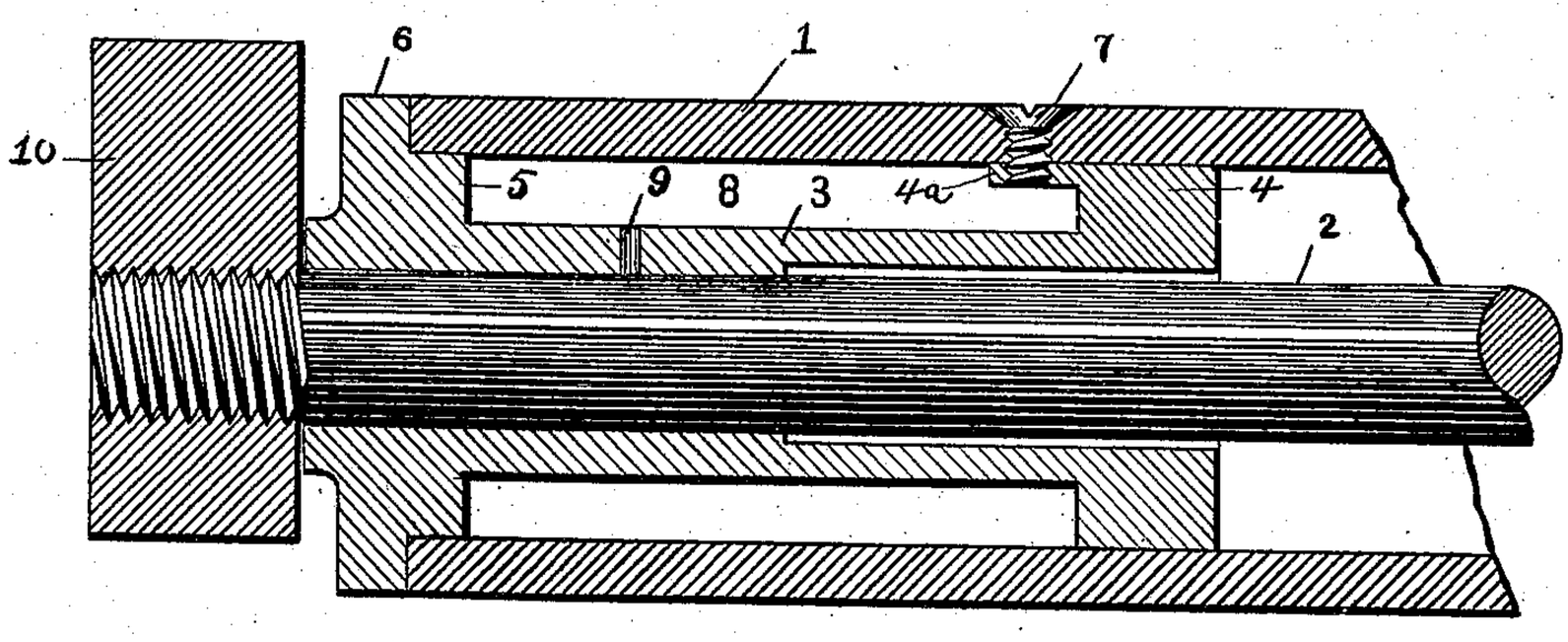
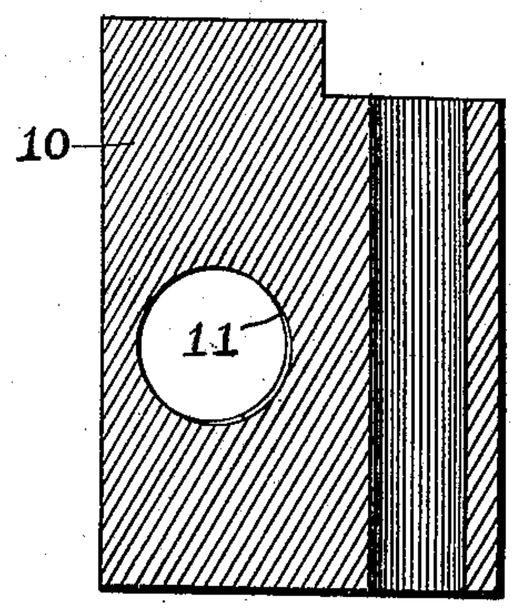


Fig. 2.



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UNITED STATES PATENT OFFICE.

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LUBRICATING MEANS.

No. 854,975. Specification of Letters Patent. Patented May 28, 1907.

Application filed May 3, 1906. Serial No. 314,990.

To all whom it may concern:

Be it known that we, BENJAMIN M. WILLIAMSON and WILLIAM B. RIPLEY, both citizens of the United States, and residents of Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Lubricating Means; and we do declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings and the characters of reference marked thereon which forms a part of this specification.

This invention relates to improvements in oilers and particularly to that class used on draper rollers for harvesters and the like and our object is to produce an automatic oiler which will be effective, economic and by the use of which there will be no waste. This object we accomplish by the peculiar construction and relative arrangement of parts fully described and pointed out herein.

In the drawings similar characters of reference indicate corresponding parts in the several views.

Figure 1 is a longitudinal section of a portion of a draper roller showing our improved oiler installed therein. Fig. 2 is a sectional view of a tightening block.

1 designates the roller cylinder proper and 2 designates a shaft surrounded part way by a sleeve 3 said sleeve being provided with a flange or rim 4 at one end and by a similar flange 6 at the other end, said flange being provided with a shoulder 5, said shoulder being of the same height as the first named flange or rim.

A flange 6 forming a component part of the flange 5 fits snugly against the end of the roller 1 and the whole of said sleeve is fastened into said roller by means of a screw 7 inserted in the cylinder 1 and into a lug 4^a forming a component part of the flange 4.

The sleeve 3 is of suitable width to allow a space between the outside thereof and the inner surface of the cylinder 1 thus forming a chamber 8 between the flange 4 and the flange 5. A hole 19 bored into the sleeve 3 connects the chamber 8 with the shaft 2.

10 is a tightening block having an interiorly threaded orifice 11 by means of which said block is screwed onto the shaft 2.

The operation is as follows: The screw 7 is removed and oil poured therein which oil runs through the screw hole of said screw and fi ls the chamber 8. When said chamber is full the screw is replaced. The oil then automatically feeds through the holes onto the shaft 2 as fast as is required by the friction.

In practice we may have the supply hole located in the side of the roller 1 between the flange 4 and the shoulder 5. A blind screw would then be employed to close said supply hole.

We have now entered into a detailed description of the construction and relative arrangement of parts embraced in the present and preferred embodiment of our invention.

Having thus described our invention what we claim as new and useful and desire to secure by Letters Patent is:

In combination with a shaft, lubricating means comprising a sleeve having a flange formed on one end thereof, a shoulder formed on said flange, a flange on the other end of said sleeve, a laterally extending lug carried by said second named flange, said second flange being provided with an opening, and a roller having one end seated upon the shoulder of the first named flange, said roller being provided with an opening adapted to register with the opening formed on the lateral projecting lug of the second named flange thereby forming means by which the lubricant container is filled, said roller forming one of the side walls of the lubricant container, the other of said walls being provided with an opening, said opening connecting the lubricant container with the shaft, and a screw passing through the opening in the roller, and the opening in the lateral projecting lug, thereby forming means by which said opening is closed after the lubricant container has been filled.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

BENJAMIN M. WILLIAMSON.
WILLIAM B. RIPLEY.

Witnesses:
PERCY S. WEBSTER,
F. E. HOLTON.