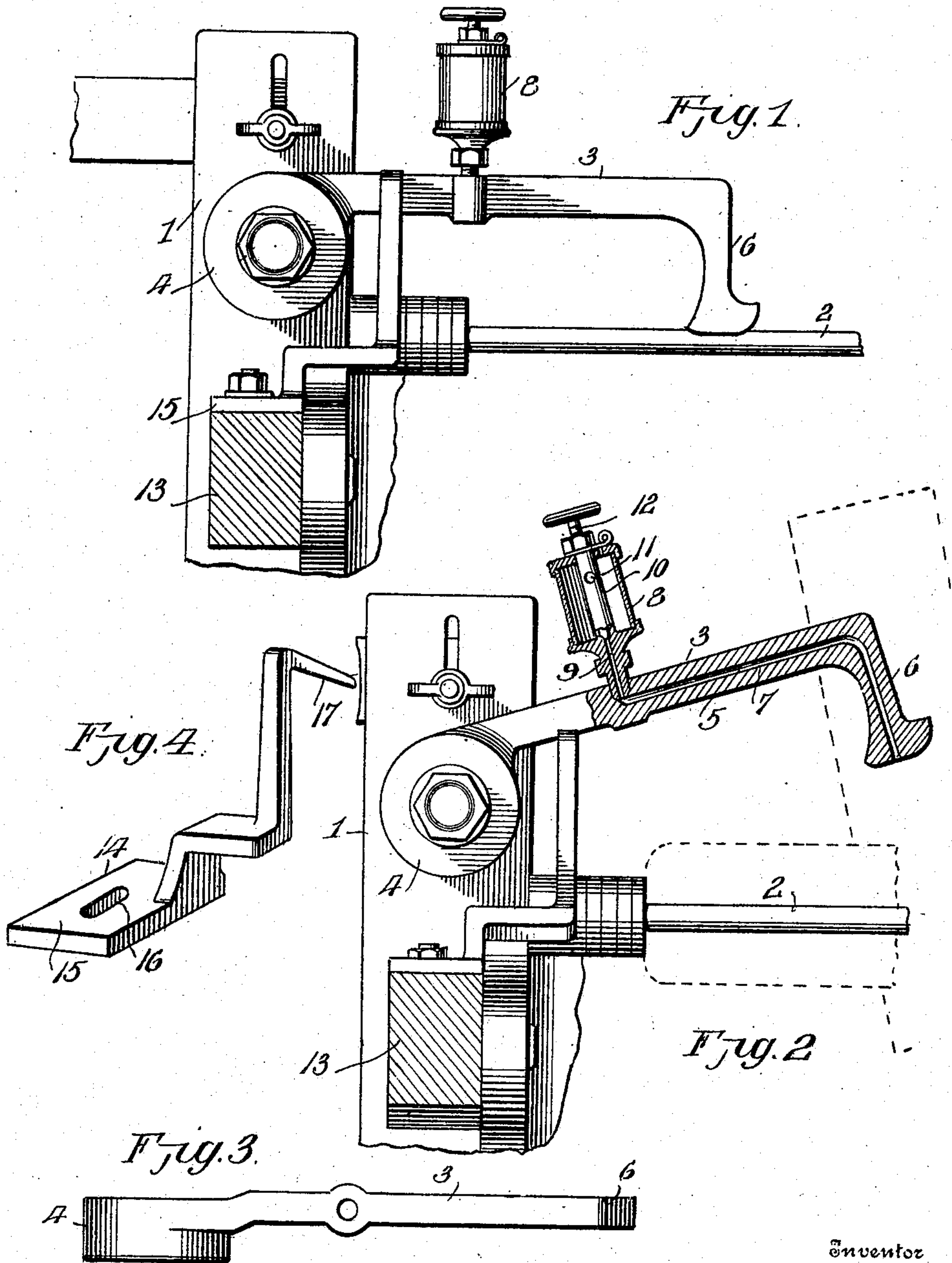


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E. C. MARCHANT.
SPINDLE OILER.

APPLICATION FILED FEB. 14, 1907.



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EVERETT C. MARCHANT, OF MAYNARD, MASSACHUSETTS.

SPINDLE-OILER.

No. 867,066.

Specification of Letters Patent.

Patented Sept. 24, 1907.

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To all whom it may concern:

Be it known that I, EVERETT C. MARCHANT, a citizen of the United States, residing at Maynard, in the county of Middlesex and State of Massachusetts, have invented new and useful Improvements in Spindle-Oilers, of which the following is a specification.

The invention relates to an improvement in spindle oilers for use with looms.

The main object of the present invention is the production of an oiler device which will automatically accommodate itself to the movement of the picker, and will automatically prevent the distribution of the lubricant except in a predetermined position of the oiling device.

The invention in the preferred form of details will be described in the following specification, reference being had particularly to the accompanying drawings, in which;

Figure 1 is a view in elevation of a portion of a loom, illustrating the application thereto of an improved oiling device. Fig. 2 is a similar view with the oiling device shown particularly in section, the parts being illustrated in the position occupied in the travel of the picker beneath the oiling device. Fig. 3 is a plan of the oiling device proper. Fig. 4 is a perspective view of the lifting device for the oiler.

Referring particularly to the drawings, my improved oiler device is designed for application to a loom of ordinary or preferred construction, including in its essentials a frame 1 and a spindle 2 mounted in the frame for the travel of the picker.

The oiler device proper comprises an arm 3 including a head 4, a central or main length 5 and a depending or delivery section 6. The head 4 is pivotally mounted on the frame 1 in a position convenient to the spindle 2, the pivotal support of the arm being so arranged that the free or lower end of the delivery section 6 may rest directly upon the spindle when the arm is in the lowered or operative position.

An oiler channel 7 is formed in the arm 3, extending throughout the length of the delivery section and throughout a portion of the length of the central section 5. The oil cup 8 is supported on the arm 3, having a delivery channel 9 in communication with the oil channel 7. Within the cup 8 is arranged a tube 10, in open communication at its lower end with the channel 9 of the cup, and otherwise closed against the interior of the cup except for an opening 11 in the wall of the tube adjacent the relatively upper end of the latter. Aside from these essentials the cup may be of any preferred form of construction, and, preferably, includes a manually operative valve as 12, whereby the extent of discharge through the channel 9 may be controlled as desired.

In connection with the oiler proper I secure upon a movable section of the loom frame, as 13 a lifting arm

14, which includes a base plate 15 with an elongated opening 16 to provide for the adjustable connection of the lifter with the frame section. From the plate 15 the arm is projected vertically, then laterally, then vertically, and forwardly, terminating in a finger 17 so disposed as to underlie the arm 3 between the pivotal support of the latter and the oil cup 8.

It is to be understood that the frame section 13 is so operated in the movement of the loom as to cause the finger 17 to engage and elevate the discharge end of the oiling device at such intervals as will permit the picker to ride beneath the oiler without interference from the latter.

The use of the oiler is obvious from the above description taken in connection with the drawings, it being particularly noted that the material feature of the present invention resides in the pivotal support of the oiler, and in the connection of the tube 10 with the oil cup proper through an opening at the top of the tube only. Through this construction the lubricant is delivered to the tube 10, and hence to the channel 7 only during agitation of the oiler, hence the quantity of the lubricant delivery during one elevation and depression of the oiler may readily be controlled. Furthermore that portion of the channel 7 lying between the delivery section of the arm 3 and the oil cup will, when the picker travels beneath said arm, or when the arm is under the influence of the elevator 14, be inclined downwardly and rearwardly from the discharge section. Gravitation of the lubricant toward the discharge section of the oiler is thus absolutely prevented when the oiler is in an elevated position, thereby precluding any delivery of oil from the oiler when the latter is in an elevated position.

While preferring the details of construction shown and described, it is obvious that various changes and modifications may be resorted to without departing from the scope of the present invention, and it is to be understood that I contemplate as within the spirit of the present invention all such changes and modifications as may fall within the scope of the appended claims.

Having thus described my invention what I claim as new, is:

1. A lubricating device for looms comprising an oiler to overlie and bear upon the loom spindle, said oiler being formed with an oil delivery passage, and means for lifting the delivery end of the oiler at predetermined intervals and disposing the oil delivery passage therein to prevent gravital discharge of the lubricant.

2. A lubricating device for looms comprising an arm pivotally supported on the loom frame and adapted to bear on the loom spindle, said arm being formed with an oil channel, a lubricant receptacle in communication with said channel, and means for elevating the arm at predetermined intervals and thereby inclining the oil channel to prevent gravital discharge of the lubricant during such elevation.

3. A lubricating device for looms comprising an arm pivotally mounted on the loom structure, a lubricant recep-

tacle supported by the arm and in communication with an oil channel formed in the arm, and means to prevent the passage of the lubricant from the receptacle to the channel except during agitation of the arm.

- 5 4. A lubricating device for looms comprising an arm pivotally mounted on the loom structure, a lubricant receptacle supported by the arm and in communication with an oil channel formed in the arm, means to prevent the passage of the lubricant from the receptacle to the channel
10 except during agitation of the arm, and means adjacent the pivot to elevate the free end thereof at predetermined intervals.

5. A lubricating device for looms comprising an arm pivotally mounted on the loom structure, a lubricant recep-

tacle supported by the arm and in communication with an 15 oil channel formed in the arm, means to prevent the passage of the lubricant from the receptacle to the channel except during agitation of the arm, and a lifting arm supported by the loom structure and adapted to engage beneath and elevate the free end of the lubricating device at 20 predetermined intervals.

In testimony whereof, I affix my signature in presence of two witnesses.

EVERETT C. MARCHANT.

Witnesses:

HARRY BREARLEY,
RICHARD P. WOLF.