

UNITED STATES PATENT OFFICE.

FAYETTE HARDENBERGH, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN THE MODES OF LUBRICATING DRAWING-ROLLERS.

Specification forming part of Letters Patent No. 128,224, dated June 25, 1872.

To all whom it may concern:

Be it known that I, FAYETTE HARDENBERGH, of the city and county of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Drawing-Roll Lubricators; and I do hereby declare that the following specification, taken in connection with the drawing making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a top view. Fig. 2 is a longitudinal and vertical section.

My invention is applicable to the stands used to support the drawing-rollers in mules, spinning-frames, twisters, jacks, and drawing-frames; and it consists in such a construction of the stand as will facilitate the lubrication of the journals of the several rollers.

Heretofore it has been necessary to apply oil to the bearings of each roller separately. In addition to the time thus consumed by the attendant of the machine, the duty is often very imperfectly performed, for the reason that it is not easy to get access to all the boxes, particularly those belonging to the back and middle rollers, by reason of the cap-bar and the top rollers being in the way.

In the drawing, A represents a stand for supporting the rollers. B, C, and D are the bearings for the journals of the front, middle, and back rollers, respectively. Underneath each of these bearings is formed in the stand a chambered recess, E, which extends to the top of the stand and at one side of the journal-bearing. For this purpose the chamber is made concentric with the bearing as far as it

extends, as shown at Fig. 2. These chambers are to be filled with cotton-waste or some suitable fibrous material, and, at the lowest point of the bearings, ducts *a* connect the bearings with the chambers. These ducts should also be filled with a fibrous absorbent to enable the oil with which the fibrous material which fills the chamber E is saturated to be conducted to the journal-bearings of the rollers.

By the construction described the several bearings will be lubricated so long as the fibrous material in the chambers is supplied with oil, and whenever it is necessary to be done first, oil can be poured into the mouths of the chambers with the certainty that each bearing connected therewith will be thereby lubricated.

I am aware that a fibrous absorbent, arranged in various ways, has been used to supply oil from a reservoir to a journal-bearing, but never, so far as I know, under the arrangement shown and described.

What I claim as my invention, and desire to secure by Letters Patent, is—

In combination with the journal-bearings of a drawing-roll stand, the recessed chambers E, partially surrounding the bearings communicating therewith by ducts, and provided with elevated mouths for receiving the fibrous absorbent and lubricating matter, all as and for the purposes specified.

FAYETTE HARDENBERGH.

Witnesses:

EDWIN C. PIERCE,
PETER F. HUGHES.