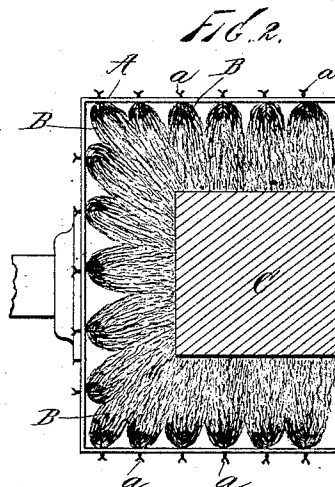
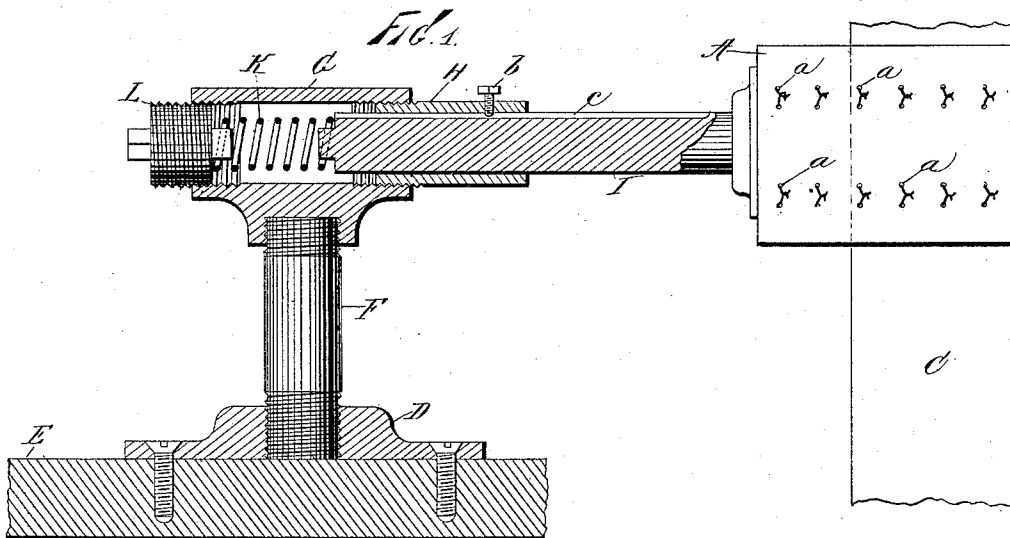


(No Model.)

O. W. GRIFFITHS.
LUBRICATOR.

No. 469,419.

Patented Feb. 23, 1892.



WITNESSES:

John Buckle,
L. H. Osgood.

INVENTOR

Oleiver W. Griffiths,

BY *North Osgood,*

ATTORNEY

UNITED STATES PATENT OFFICE.

OLIVER W. GRIFFITHS, OF BROOKLYN, NEW YORK.

LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 469,419, dated February 23, 1892.

Application filed May 23, 1891. Serial No. 393,831. (No model.)

To all whom it may concern:

Be it known that I, OLIVER W. GRIFFITHS, of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Lubricators for Slides and Guides, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to lubricators or lubricant-carriers for application in connection with slides and guides either fixed or movable.

The principal object of my invention is to provide a simple, cheap, durable, effective, and easily-applicable lubricant-carrier by which hard oil and other equivalent lubricating materials may be thoroughly, uniformly, and economically distributed over the surface of the slide or guide, which carrier may be easily supplied with the lubricant and will distribute it automatically and only as required by the operation of the machine and without liability to disarrangement or damage.

To accomplish all of this and to secure other and further advantages in the matters of construction, operation, and use, my improvements involve certain new and useful arrangements or combinations of parts and peculiarities of construction, as will be herein first fully described, and then pointed out in the claim.

In the drawings, Figure 1 is a view, partly in section and partly in elevation, showing my improved lubricator applied so as to operate upon a slide or guide and only upon three sides thereof, and illustrating the means of mounting and holding such a lubricator in place. Fig. 2 is a horizontal sectional view of the carrier and slide in the form shown in Fig. 1, illustrating the preferred means of securing the lubricant carrying and distributing material in place.

In both figures like letters of reference, wherever they occur, indicate corresponding parts.

A is a metallic or equivalent base or frame, in which is secured the material by which the lubricant is to be carried in contact with the slide or guide to be lubricated. This base or frame is, of course, to be of proper size and proportion according to the work to be done,

and it may be circular or other shape and extended wholly or partly around the piece or part to be lubricated. On the interior surface of this base or frame I apply or attach in some secure manner the lubricant-carrying material. In the example shown I apply a number of separate and independent tufts of suitable yielding material, preferably wool, as at B B, which tufts bear against the piece or part to be lubricated, brushing against it or over its surface without producing any unnecessary friction and distributing the lubricant precisely as and at the times required. C in Figs. 1 and 2 represents any angular or other slide or guide. The tufts B are each held by wires, as *a*, or by any other equivalent means, passing through the material of the base and secured on the exterior, holding each tuft in proper place, substantially as indicated. This manner of securing the carrying and distributing material is preferred. Any one or more of the tufts may be detached, when necessary, and replaced without disturbing the remainder. They practically fill the interior of the base, so as to completely touch all the surface required to be lubricated; but it is plain that other means of holding this material (of whatever substance it may be) in place may be adopted.

When a portion of the frame or base is left open, as in Figs. 1 and 2, it becomes necessary to provide means for automatically holding it in working position. D represents a block or bottom piece which may be secured to any convenient part, as E, of the machine, whatever it may be. F is a standard or support threaded into the block D, by which the upper part may be adjusted, so as to bring the carrier to the proper carrying point. G is a cross-head on the standard supplied with an extension of suitable length, as H, serving to guide and sustain the rod I, on which the carrier A is mounted. Within the cross-head is a spring K, bearing against the end of rod I and against an adjusting-plug L. A simple screw, as *b*, entering a groove *c* in rod I, permits the latter to slide easily back and forth in its guide without turning therein and may be used to clamp the said rod, if so desired. The device thus described being properly located and adjusted will keep the carrier to its working position, notwithstanding ordinary

variations in distance between the parts A and E, such as may occur during the use of the machine.

5 The lubricating material may be applied to the slide or guide above or below the carrier or to the carrying material, and it will be brushed or distributed evenly over the desired extent of surface and employed with economy, as will be readily understood.

10 The device constructed and arranged substantially in accordance with the foregoing explanations has been found in practice to admirably answer the purposes or objects of the invention previously set forth.

15 Having now fully described my invention,

what I claim as new herein, and desire to secure by Letters Patent, is—

In a lubricator for slides and rods, the carrier frame or band having a yielding carrying material secured upon its inner surface, the same being combined with a rod I, spring K, and adjustable plug L, substantially as shown and described. 20

In testimony that I claim the foregoing I have hereunto set my hand in the presence of two witnesses. 25

OLIVER W. GRIFFITHS.

Witnesses:

W. J. MORGAN,
WORTH OSGOOD.