(No Model.)

O. W. GRIFFITHS.

CLIP FOR LUBRICATORS.

No. 464,119. Patented Dec. 1, 1891.

FIG. 1.

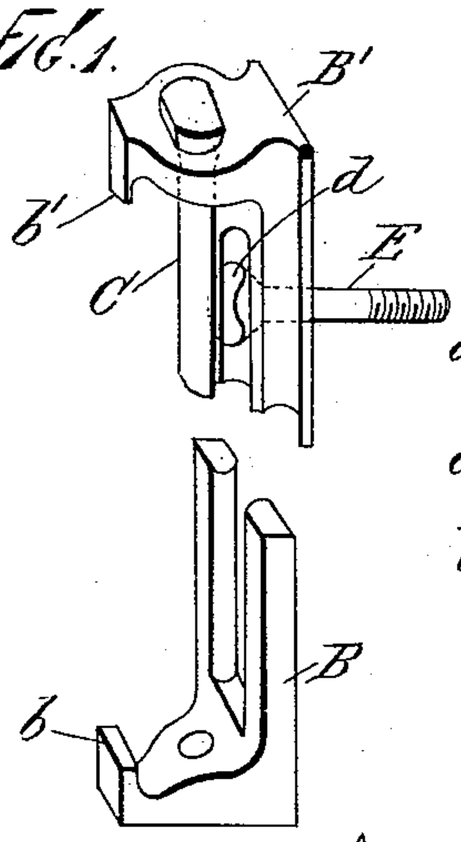


FIG. 2.

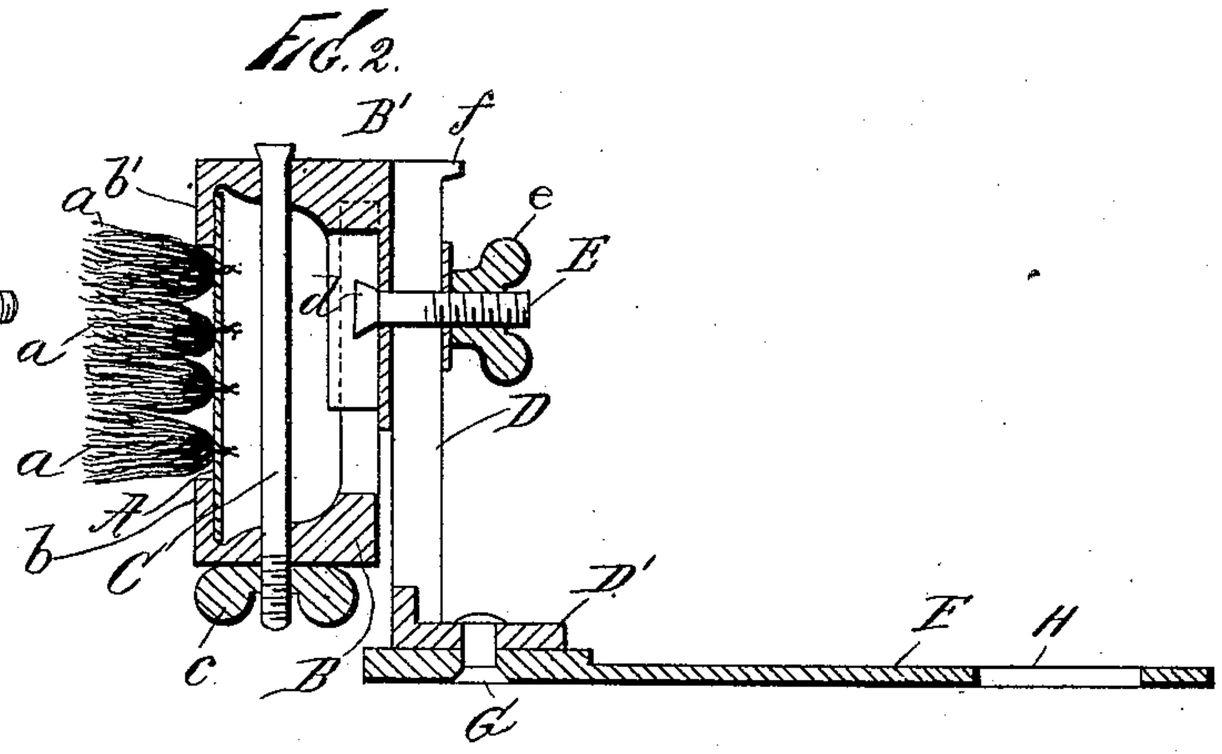


FIG. 3.

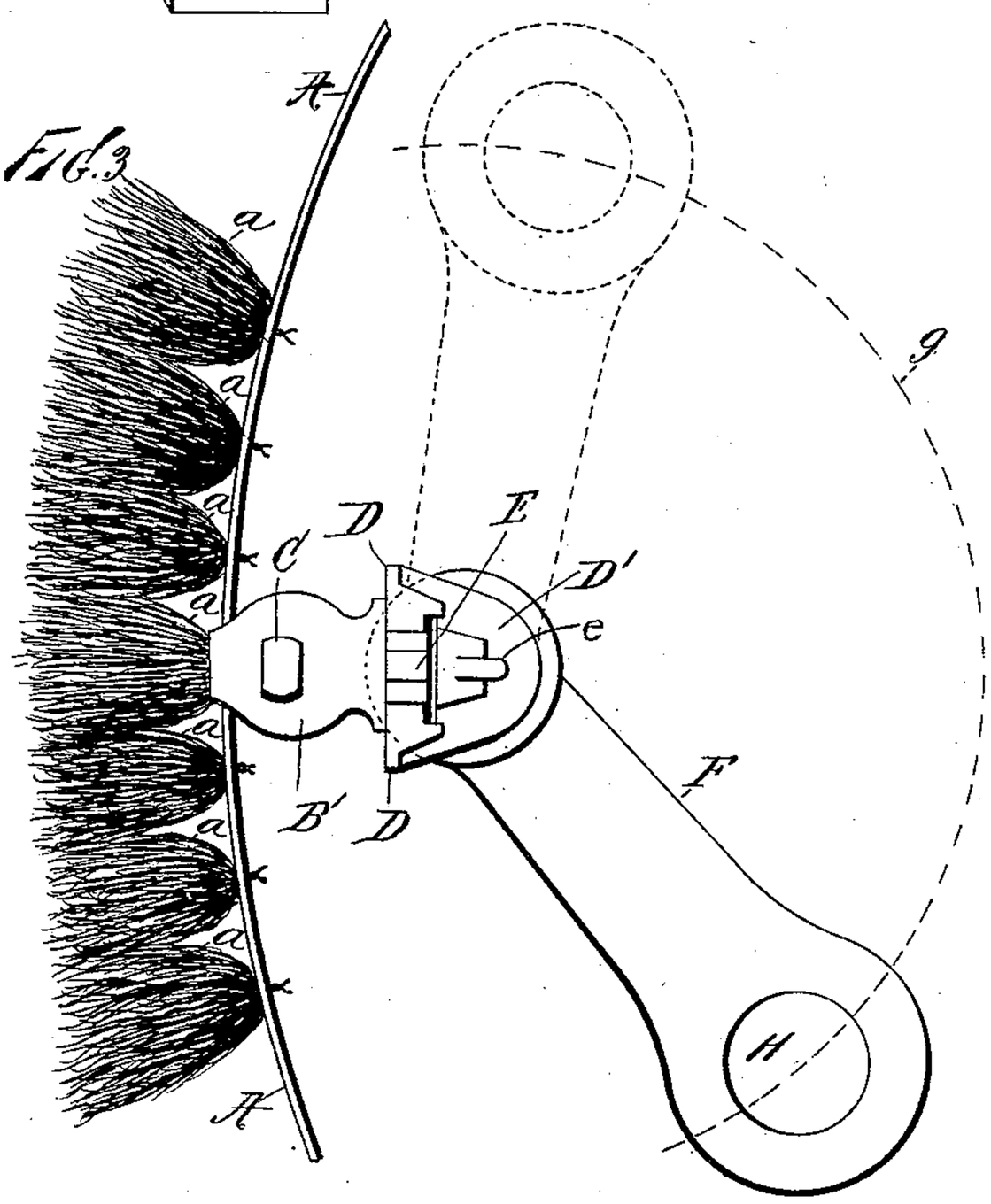
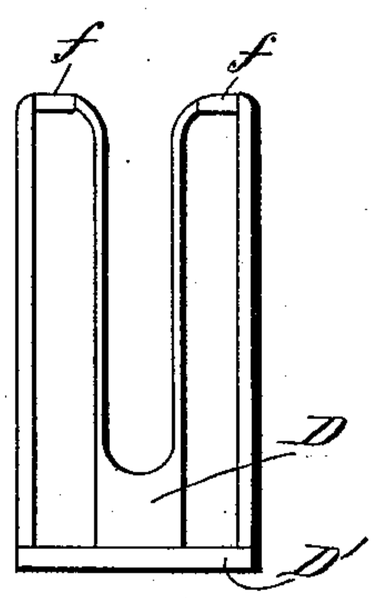


FIG. 4.



WITNESSES:

John Buckler,

L. H. Osgood.

INVENTOR

Oliver W. Griffiths,

BY

North Osgood

ATTORNEY

UNITED STATES PATENT OFFICE.

OLIVER W. GRIFFITHS, OF BROOKLYN, NEW YORK.

CLIP FOR LUBRICATORS.

SPECIFICATION forming part of Letters Patent No. 464,119, dated December 1, 1891.

Application filed August 14, 1891. Serial No. 402,647. (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 Clips for Lubricators, 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 has relation to appliances for mounting and holding lubricators or lubricator-bands and analogous articles in position for work. These appliances are known as "clips," "boxes," or "holders," and serve to connect the band or ring constituting the lubricator with a piston or other part and to hold the same in proper place.

The principal objects of my invention are to produce a secure and durable clip of the class named which may be applied in connection with any form of lubricator band, ring, or carrier at any desired point thereof and without requiring any alteration therein or addition thereto, which may be quickly and easily applied or removed, and which is conformable to any position or arrangement of the piston, follower, or other securing-bolts. To accomplish these objects and to secure other and further advantages in the matters of construction, operation, and use, my improvements involve certain new and useful features of invention, as will be herein first fully described, and then pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the two sliding jaws of the clip separated from each other, but ready to be united. Fig. 2 is a view in cross-section showing the improved clip complete in position upon a lubricator-band. Fig. 3 is a plan view showing a fragment of a lubricator band or carrier with the clip thereon, the dotted lines indicating the manner in which the base-piece may be adjusted for the purpose of securing the clip on a bolt in any position. Fig. 4 is an elevation of the bifurcated union-piece which serves to connect the base and sliding-jaw pieces.

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

A is a lubricator band or carrier, which may be of any desired size and shape. In or on this is applied the lubricant-carrying material, which may be of any suitable character and is represented in the drawings by the tufts *a a*. The carrier, with the carrying material, is to be sustained in proper relation to the piece or part to be lubricated—as, for instance, the interior of a cylinder.

B B′ are two metallic jaws, one of these, as B, being bifurcated and sliding upon or in respect to the other, so that the clamp which they constitute may be adjusted to conform to the width or size of the carrier A. A clamping-bolt C passes through the jaws and is provided with a nut, as *c*, by which the jaws may be drawn toward each other. Each jaw is provided with a lip, as *b b′*, and back of the lip a slight recess, into which the margin of the carrier fits when in place. The clamp thus constructed may be applied at any part of the carrier and is easily adjustable therein, as may be required, in order to properly locate the carrier.

In other forms of clips or clamps the carrier has been supplied with some fixed box or other device with which the clip is compelled to conform, thus frequently forcing the carrier out of line, to say nothing of the expense of applying or the inconvenience of adjustment.

When the improved clip is in place, the two jaws are united by the bolt C with the carrier. That the clip may be adjusted up and down or back and forth it is mounted upon a union-piece or standard D, the same being bifurcated to accommodate a bolt E, having a nut *e*, as shown. The head *d* of bolt E is slightly flattened, as indicated, and enters a recess in jaw B′ out of the way of bolt C, and so that it will not turn while the nut is being applied.

The clip may be regulated in position within the limits of the recess in union piece or standard D. The two branches of piece D are supplied with projections *f f* to prevent the bolt E from being displaced should the nut *e* become loosened. The standard D has a foot D′, by which it is mounted upon a base-piece F, the union between these two parts being made by a bolt or rivet G, which while it holds them together permits one to freely revolve upon the other. The base-piece F is

perforated, as at H, to fit over a bolt upon which it is to be located and held.

In the case of a hydraulic or other cylinder and piston the lubricator is secured upon the bolts in the piston-follower, and these are variously located and arranged in the different machines. By having the base-piece adjustable on the clip and the clip applicable at any point of the carrier it is plain that any bolt in any situation upon the piston may be reached by properly adjusting the two parts, the base describing the arc indicated by the dotted line *g*, at any point of which it may be applied upon the bolt. The carrier with this improved appliance may be accurately set and adjusted before being finally tightened up, and will thus be held in proper place without being forced out of line or cramped to correspond with the position of any bolt or other fitting. It may be easily and quickly applied and as easily dismounted when desired. The clip is simple, cheap, and durable, well calculated to hold the carrier firmly, and generally to answer the purposes and objects of the invention previously indicated.

Any desired number of the improved clips may be used in connection with any carrier.

Having now fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with the lubricator band or ring, the two adjustable jaws, each provided with a lip arranged to embrace the margins of said band, and means, substantially as described, for securing the jaws upon the band, substantially as set forth.

2. The two adjustable jaws, each having a lip, as explained, said jaws being perforated and provided with a bolt and nut for clamping them in place, and combined with a lubricator band or ring, substantially as shown and described.

3. The clip composed of the adjustable jaws and coupling-bolt, combined with a standard or union-piece and secured thereon by a bolt and nut, the parts being combined with each other and with the lubricator band or ring and arranged substantially as set forth.

4. The two sliding or adjustable jaws, the standard or union-piece, and the base-piece secured to said standard and movable thereon, the parts being combined with each other and with the lubricator band or ring and arranged substantially as and for the purposes set forth.

5. The herein-described clip for lubricator-bands, comprising two adjustable jaws, a union-piece upon which said jaws may be adjusted, a base-piece movably connected with said union-piece, and adjusting and securing-bolts, combined with each other and with the lubricator band or ring, substantially in the manner and for the purposes set forth.

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

OLIVER W. GRIFFITHS.

Witnesses:
W. J. MORGAN,
WORTH OSGOOD.