

(No Model.)

W. C. HOMAN.
LAMP BRACKET.

No. 578,014.

Patented Mar. 2, 1897.

Fig. 1.

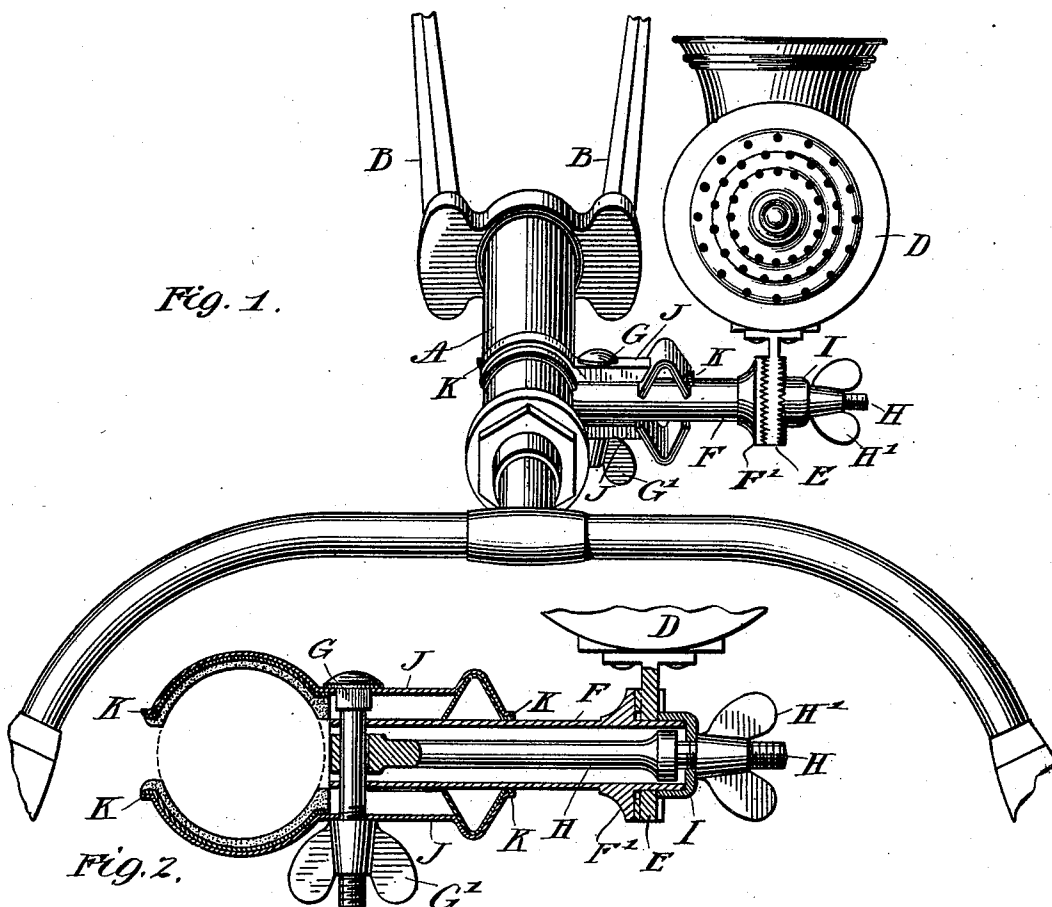


Fig. 2.

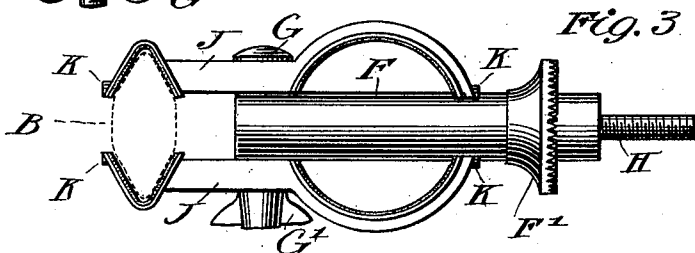
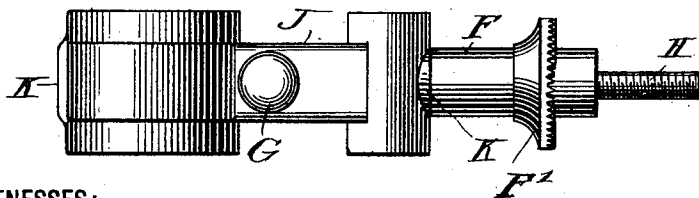


Fig. 4.



WITNESSES:

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LAMP-BRACKET.

SPECIFICATION forming part of Letters Patent No. 578,014, dated March 2, 1897.

Application filed December 8, 1896. Serial No. 614,871. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. HOMAN, a citizen of the United States, residing at Meriden, New Haven county, Connecticut, have invented certain new and useful Improvements in Bicycle-Lamp Brackets, of which the following is a full, clear, and exact specification.

My invention relates to improvements in lamp brackets or supports particularly useful for the purpose of connecting a lamp to a bicycle or other vehicle.

The object of my invention is to provide a simple and effective means for accomplishing the desired end, which means may be easily and quickly attached to the frame of a vehicle at a suitable point, and by means of which the position of the lamp may be readily adjusted to any desired angle.

My invention is illustrated by the accompanying drawings, in which—

Figure 1 is a plan view of the forward portion of a bicycle, showing the lamp and bracket support in one of the operative positions. Fig. 2 is a relatively enlarged longitudinal sectional view through the center of the bracket. Fig. 3 is a plan view of said bracket partially dismembered, and showing the clamping members thereof in a reversed position. Fig. 4 is a side elevation of the part shown in Fig. 3, the position of the clamping members being the same as shown in Figs. 1 and 2.

Similar letters refer to similar parts throughout the several figures.

A is the front frame-tube of a bicycle, commonly termed the "head."

B B are the front-fork blades of a bicycle.

D is a lamp.

E is a connecting-piece, preferably ring-shaped, suitably fastened to the body of the lamp. The opposite surfaces of the ring E are by preference knurled or roughened.

F is a tubular supporting-arm, and F' is an annular shoulder secured to or formed as part of the said arm F and located toward one end thereof. The outer face of this shoulder F' is also by preference knurled or roughened.

G is a bolt passing transversely through said arm F near the end opposite the shoulder F'. G' is a set-nut on said bolt G.

H is a shank, one end of which loosely sur-

rounds that portion of the bolt G within the tubular arm F. The opposite end of the shank H is threaded, as shown, and projects through and beyond said tubular arm F.

H' is a set-nut on the threaded extremity of the shank H.

I is a suitably-formed washer loosely surrounding the threaded end of the shank H, and adapted to bear against the outer face of the connecting-ring E when the parts are in the operative position. The set-nut H' bears against the outer face of the said washer I, so that by this means the ring E may be tightly pressed against the shoulder F'.

J J are clamps arranged on opposite sides of the inner end of the supporting-arm F, as shown. The bolt G passes through said clamps, as shown, so that by means of the nut G' the said clamps may be tightened or loosened at will. These clamps J are by preference shaped so that one end of said clamps will engage the cylindrical front frame-tube A of the bicycle when said clamps are turned into the positions shown in Figs. 1, 2, and 4, the opposite ends of the clamps being shaped to engage one of the forked tubes B when the position of said clamps is reversed, as shown in Fig. 3. To more securely prevent the clamps J J from twisting or slipping out of line with the arm F, I provide recesses K K substantially midway in the ends of said clamps, so that when in the operative position the inner ends of the clamps will embrace said arm F to an extent sufficient to prevent twisting.

The operation of the device is as follows:

The clamps J J are loosened by unscrewing the nut G'. The corresponding extremities of said clamps J are passed around that portion of the vehicle-frame to which it is desired to attach the bracket. The set-nut G' is then turned, drawing said clamps into secure engagement with said frame. The connecting-ring E' is then passed over the opposite free end of the shank H and supporting-arm F until it abuts against the shoulder F'. The washer I is then placed over the end of the shank H until its inner edge or surface abuts against the ring E. The set-nut H' is then screwed onto the shank, forcing said ring into tight contact with the shoulder F' and at the same time drawing the shank H outwardly,

thus drawing the bolt G laterally into tight contact with the adjacent edges of the tubular arm F, through which said bolt G passes. By this means all of the parts are securely held together, preventing rattling that might otherwise occur by the vibration of the vehicle. The lateral adjustment of the lamp is afforded by shifting the position of the bracket around the frame-tube, while the vertical position of the lamp may be shifted by loosening the nut H', which permits the said lamp to be raised or lowered.

What I claim is—

1. In a lamp-bracket for vehicles, a supporting-arm, a transverse bearing-shoulder near its outer end, a projection on the lamp for detachably securing the lamp on said arm, and a clamp operating in line with and on said arm, and clamping said projection against said shoulder.
2. In a lamp-bracket for vehicles, a supporting-arm, a transverse bearing-shoulder near its outer end, an adjustable clamp near its inner end, a projection on the lamp for detachably securing the lamp on said arm, and a clamp operating in line with and on said arm, and clamping said projection against said shoulder.
3. In a lantern-holder, an arm, a clamp near one end thereof, a transverse piece engaging said clamp, a lamp-supporting member adjustable on said arm, and a clamp for said member, one part of which clamp engages said transverse piece.
4. A lamp-bracket for cycles, comprising, a supporting-arm, a shoulder near its outer end, adjusting-clamps near its inner end, a bolt for operating said clamps, a shank, one end of which engages said bolt while the opposite end projects beyond said supporting-arm, and means for detachably securing the lamp to the outer end of said arm.
5. A lamp-bracket for cycles, comprising, a tubular supporting-arm, a shoulder near its outer end, adjusting-clamps near its inner end, a clamp-operating bolt, a shank within said arm engaging one end of said clamp-operating bolt the opposite end projecting through said supporting-arm, and means for detachably and adjustably securing said lamp to the outer end of said arm.
6. A lamp-bracket for cycles, comprising a tubular supporting-arm, an annular shoulder

near its outer end, adjusting-clamps toward its inner end, a clamp-engaging bolt, a shank within said tubular arm one end of said shank engaging said clamp-operating bolt, the opposite end projecting through and beyond said supporting-arm, a connecting-piece carried by the body of the lamp and bearing against said shoulder when the parts are assembled, substantially as described.

7. A lamp-bracket for cycles comprising, a tubular supporting-arm, an annular shoulder near its outer end, reversible clamps pivotally mounted upon a bolt G near its inner end, the inner ends of said clamps bearing against said supporting-arm, a shank within said tubular supporting-arm, one end of which engages the bolt G, the opposite end being screw-threaded, a connecting-piece E substantially ring-shaped and carried by the body of the lamp B, and a set-nut H' operating upon said shank H.

8. In a lamp-bracket for bicycles and other vehicles, a lamp-supporting arm, provided at its inner end with reversible clamps, loosely mounted at a point intermediate in their length upon a bolt transversely placed with respect to said supporting-arm.

9. In a lamp-bracket for bicycles and other vehicles, a lamp-supporting arm provided at its inner end with reversible clamps, pivotally mounted at a point intermediate in their length, said clamps having on one side of said pivotal support substantially semicircular recesses adapted to receive a cylindrical frame-tube, and on the other side of said pivotal support with substantially V-shaped recesses adapted to engage a flattened frame-tube such as a bicycle-fork.

10. In a lamp-bracket for bicycles and other vehicles, reversible clamps pivotally mounted at a point intermediate in their length, one end of each of said clamps being bent into substantially semicircular form to engage with a cylindrical frame-tube, the opposite ends being provided with substantially V-shaped recesses to engage a flattened frame-tube, and recesses K K in the ends of said clamps, substantially as described.

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Witnesses:

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