

P. DAVIES.  
MEANS FOR CARRYING HEADLIGHTS ON VELOCIPEDES.  
No. 506,477. Patented Oct. 10, 1893.

Fig. 1.

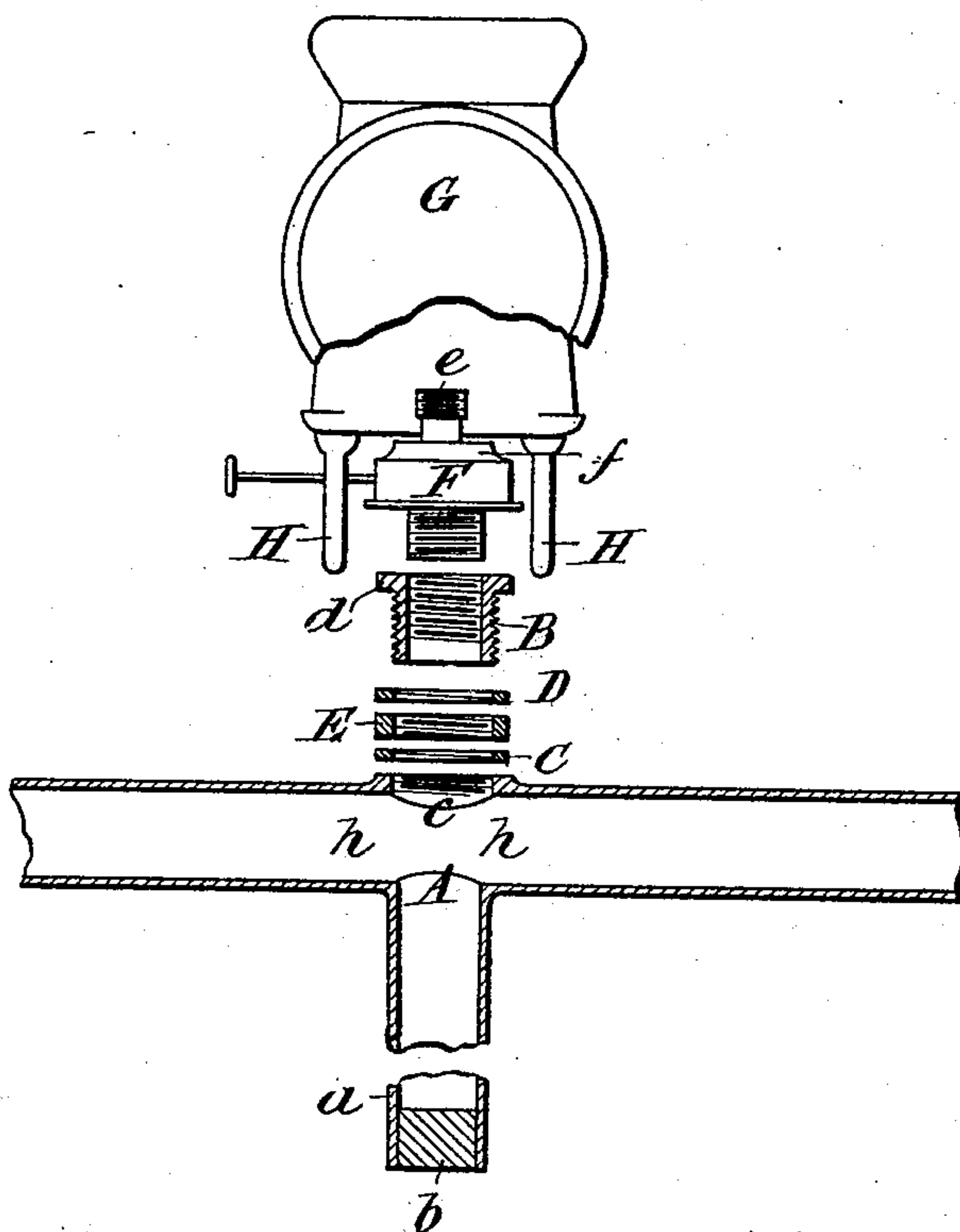


Fig. 2.

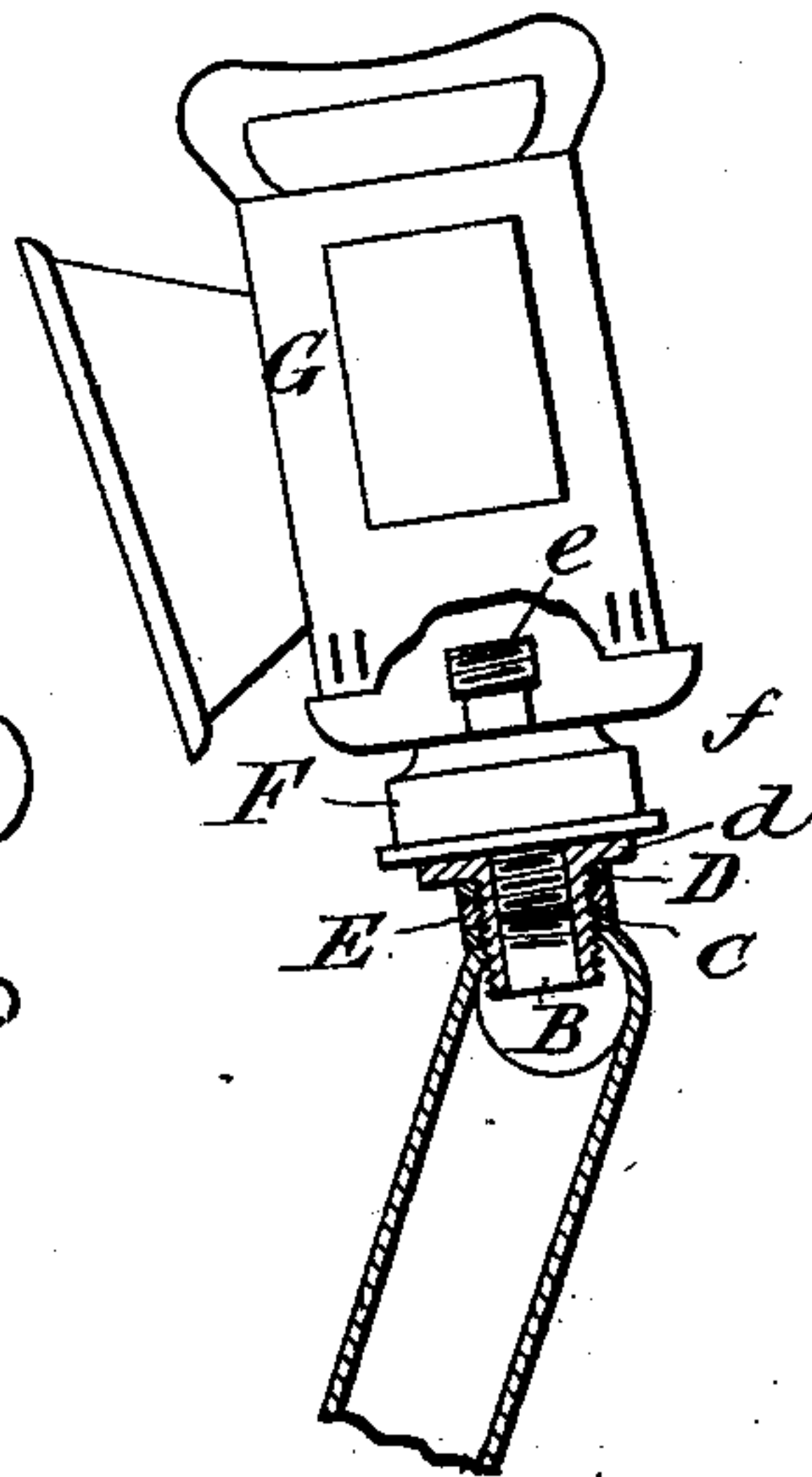


Fig. 3.

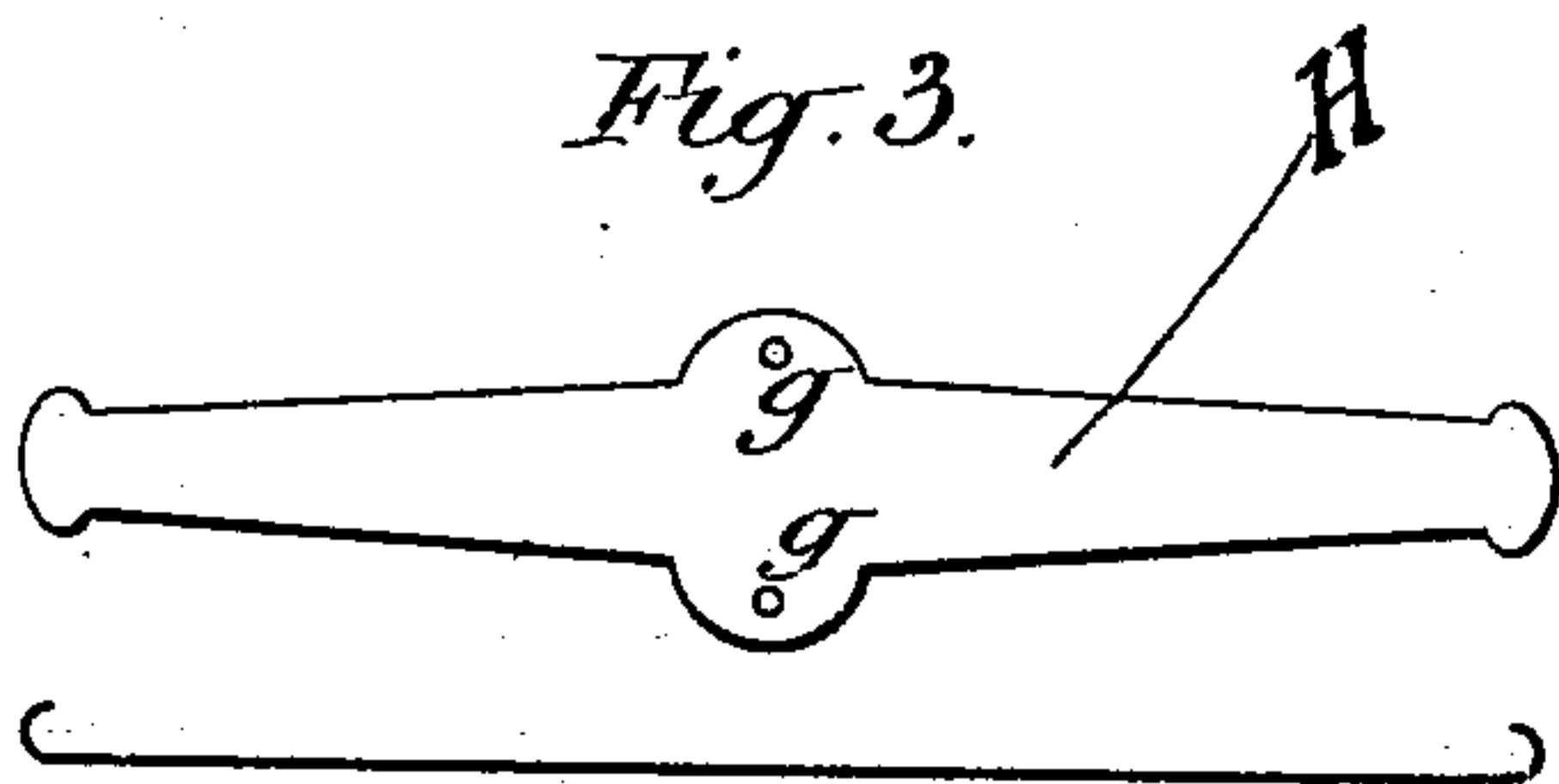


Fig. 4.

Witnesses:  
B. W. Miller.  
C. M. Brooke.

Inventor:  
Preston Davies.  
By his Attorneys  
Caldwell, Dinslow & Wright.

(No Model.)

2 Sheets—Sheet 2.

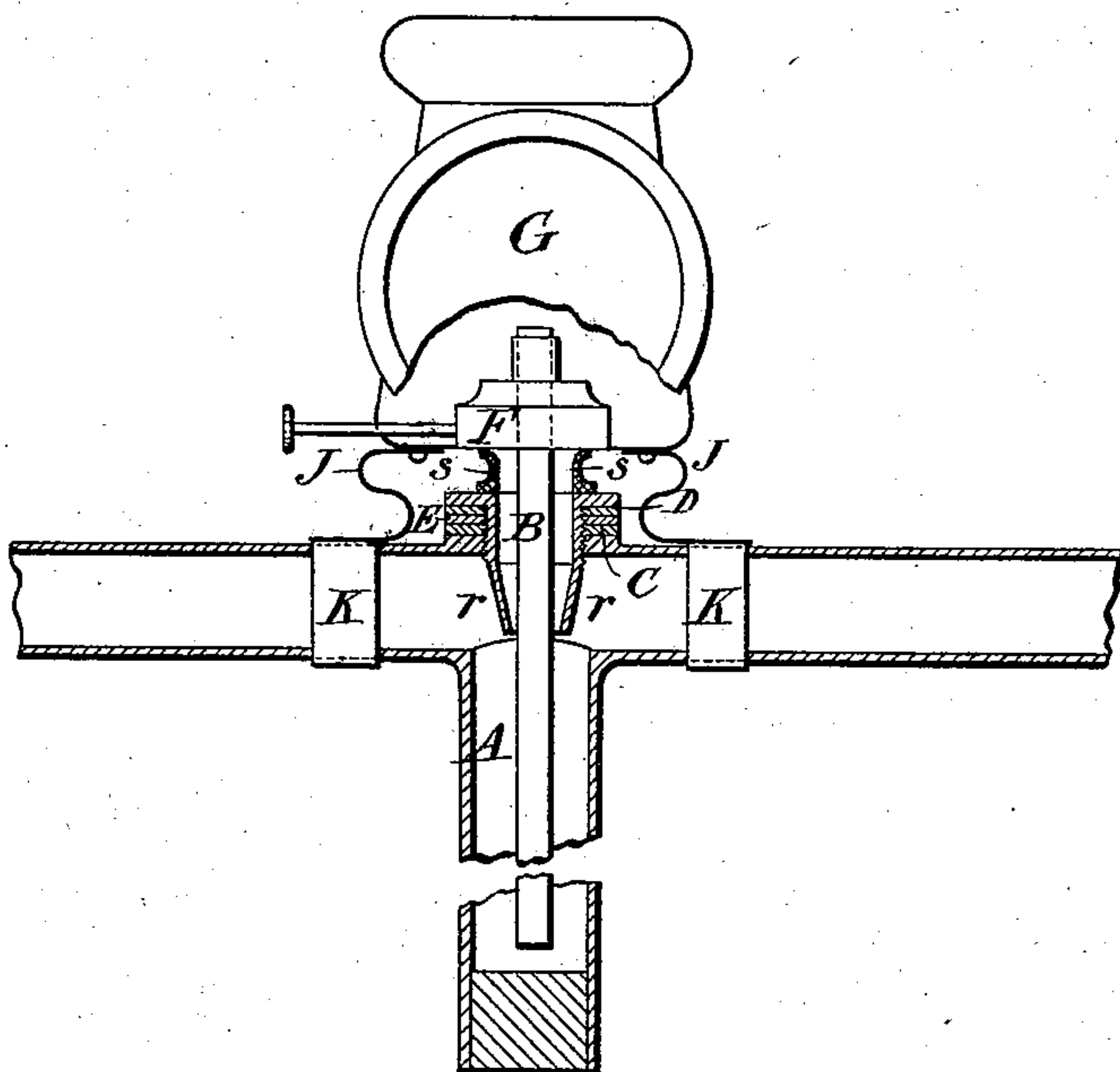
P. DAVIES.

MEANS FOR CARRYING HEADLIGHTS ON VELOCIPEDES.

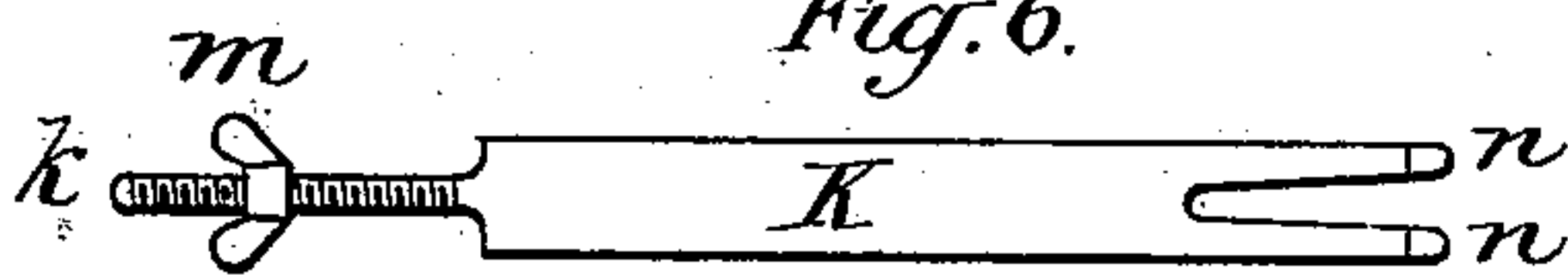
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*Fig. 5.*



*Fig. 6.*



*Fig. 7.*



Witnesses.

B. W. Miller.  
C. M. Brooke.

Inventor.

Preston Davies  
By his Attorney  
Baldwin Davidson Wright



# UNITED STATES PATENT OFFICE.

PRESTON DAVIES, OF LONDON, ENGLAND.

## MEANS FOR CARRYING HEADLIGHTS ON VELOCIPEDES.

SPECIFICATION forming part of Letters Patent No. 506,477, dated October 10, 1893.

Application filed July 12, 1893. Serial No. 480,210. (No model.) Patented in Denmark May 19, 1893, No. 6,533.

*To all whom it may concern:*

Be it known that I, PRESTON DAVIES, a subject of the Queen of Great Britain and Ireland, residing at 12 Kempson Road, Walham Green, Falham, London, in the county of Middlesex, England, have invented a new and useful Means for Carrying Headlights on Velocipedes, (for which I have received Letters Patent in Denmark, No. 6,533, of May 19, 1893,) of which the following is a specification.

According to my invention the tubular handle-bar and down-stem of a velocipede are utilized as a reservoir for the oil or spirit for the lamp carried thereon.

The accompanying drawings illustrate my invention and the means for carrying the same into effect, Figure 1 being a front view, mainly in section; Fig. 2 an end view also partly in section; Figs. 3 and 4 flat and side views respectively on an enlarged scale of a blank metal stamping to form a clip for holding the lamp-case on the handle-bar. Fig. 5 shows a front view partly in section of a modified form of carrying out my invention, and Figs. 6 and 7 show flat and side views respectively of a suitably tempered steel band adapted to be used in place of the clips shown in Figs. 1, 3 and 4.

Similar letters refer to similar parts in each figure.

Referring to Fig. 1, A is a portion of the handle-bar and down-stem, shown in section, of a tricycle or safety bicycle as at present in use. The lower extremity of the down-stem is plugged by inserting a cork or other stopping, *a*, under which may be soldered a disk of metal, *b*, to make the stopping more secure. The handle-bar is similarly plugged at its extremities or at a suitable distance from the down-stem. At a point, *c*, an opening is drilled into the T-piece and handle-bar and is tapped with a female screw thread. A brass or other tubular metallic piece, B, having a milled edged flange *d*, at its upper extremity and tapped both internally and externally with a screw-thread engages with the opening, *c*, of the handle-bar. To make a good joint, leather washers, C and D, and a metallic one, E, are inserted between the edges of the opening, *c*, and the flange, *d*.

The burner F, is constructed in the ordi-

nary way and is provided with a downwardly projecting piece tapped with a male screw-thread which engages with the female one in the piece B. This metallic piece, B, engages firmly with the opening, *c*, in the handle-bar, and the burner, F, admits of removal for the purpose of refilling the reservoir. The burner is preferably designed to carry a circular wick and has a screw-thread, *e*, over which a cap fits when the lamp-case is not carried. The lamp-case, G, is made in a similar form to those at present in use but it may be smaller in size and lighter in weight. The bottom of the case has an opening which admits of its passing over the wick holder and resting on the portion, *f*, of the burner. The lamp-case is held on to the handle-bar by means of clips, H. These are made of suitably tempered spring steel of a shape shown in Fig. 3 and with turned over ends as shown in Fig. 4. They are riveted or otherwise suitably secured through holes, *g*, to the under side of the bottom of the lamp-case and are bent round to a nearly annular form so that when the lamp-case is pressed to its position, the clips open as they pass and close under the handle-bar so maintaining the lamp-case in position. Sometimes I may prefer to utilize the down-stem only as a reservoir; in that case the handle-bar, instead of being stopped at each extremity, is stopped at the points *h*, or other convenient point.

Fig. 5 shows a modified form of carrying out my invention wherein, to avoid possibility of the lamp jolting out, the burner and lamp-case rest on springs, J. These springs are attached to the bottom of the lamp-case which may be of similar construction to that described in reference to Fig. 1. The burner, F, is however inside the lamp-case as shown. The lower ends of the springs fit on to and rest upon the top of the handle-bar and are preferably secured thereto by steel bands, K, shown in Figs. 6 and 7. These bands have a screw-thread at one end over which a wing-nut, *m*, works; the other end is forked as shown at, *n*, in Fig. 6, the two ends of which are turned over and outward as shown at, *p*, in Fig. 7. These bands are attached to the springs, J, and encircle the handle-bar as shown in Fig. 5, and when affixing the same



the wing-nut, *m*, need only be loosened sufficiently to admit of its passing over the turned over ends, *p*, and then screwed tightly up.

To prevent the oil in the reservoir spilling,  
5 I may form the metallic piece, B, with a conical extremity, *r*. A plug-piece may engage with the internal thread of the piece, B, when the lamp-case and burner are not required to be carried. To avoid foreign substances  
10 reaching the reservoir a flexible circular casing of leather or its equivalent, *s*, may encircle the wick as shown.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—  
15

1. The combination, with the oil reservoir in the hollow or chambered handle of a velocipede or like vehicle, of a lamp secured to the handle and communicating with an opening in the chambered portion thereof.  
20

2. The combination, with the oil reservoir in the hollow or chambered handle, of a velocipede or similar vehicle, of a lamp communicating with an opening in the chambered  
25 portion of the handle and secured thereto by detachable fastenings.

3. The combination of the oil reservoir in the hollow or chambered handle, a hollow plug B, fitting an opening in the handle and provided with packing washers, a lamp, and means for detachably securing it to the plug and to the handle. 30

4. The combination of the oil reservoir in the hollow or chambered handle, a lamp communicating with an opening in the chambered portion of the handle, and clips for detachably securing the lamp to the handle. 35

5. The combination with the oil reservoir in the hollow or chambered handle, of the hollow plug B, fitting an opening in the handle and having the conical extremity *r*, a lamp detachably secured to the plug, and a casing *s*, encircling the wick to prevent the admission of foreign substances, substantially as set forth. 40 45

In testimony whereof I have hereunto subscribed my name.

PRESTON DAVIES.

Witnesses:

ALFRED WITHERS,  
ARTHUR F. SPOONER.