

No. 625,944.

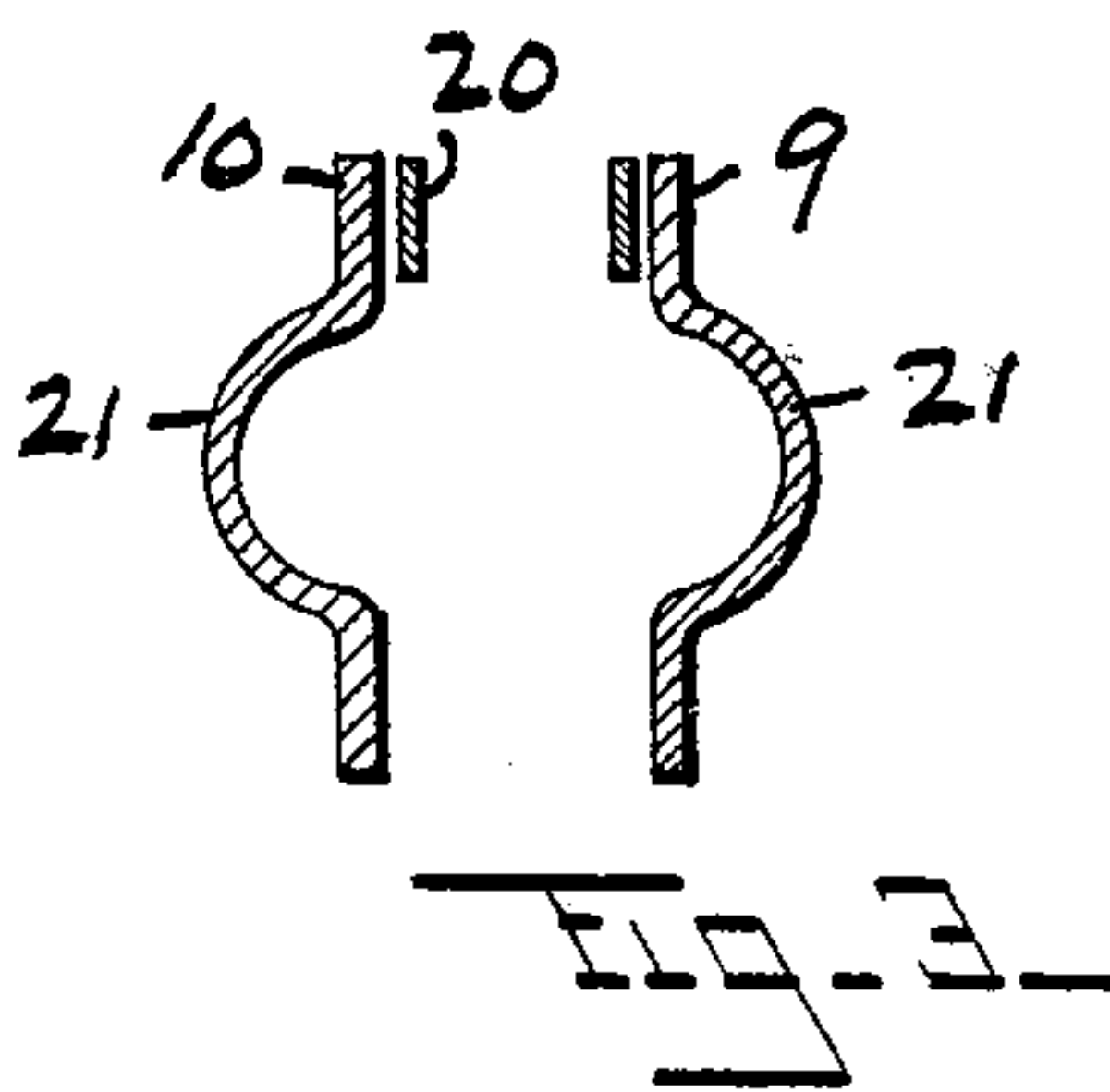
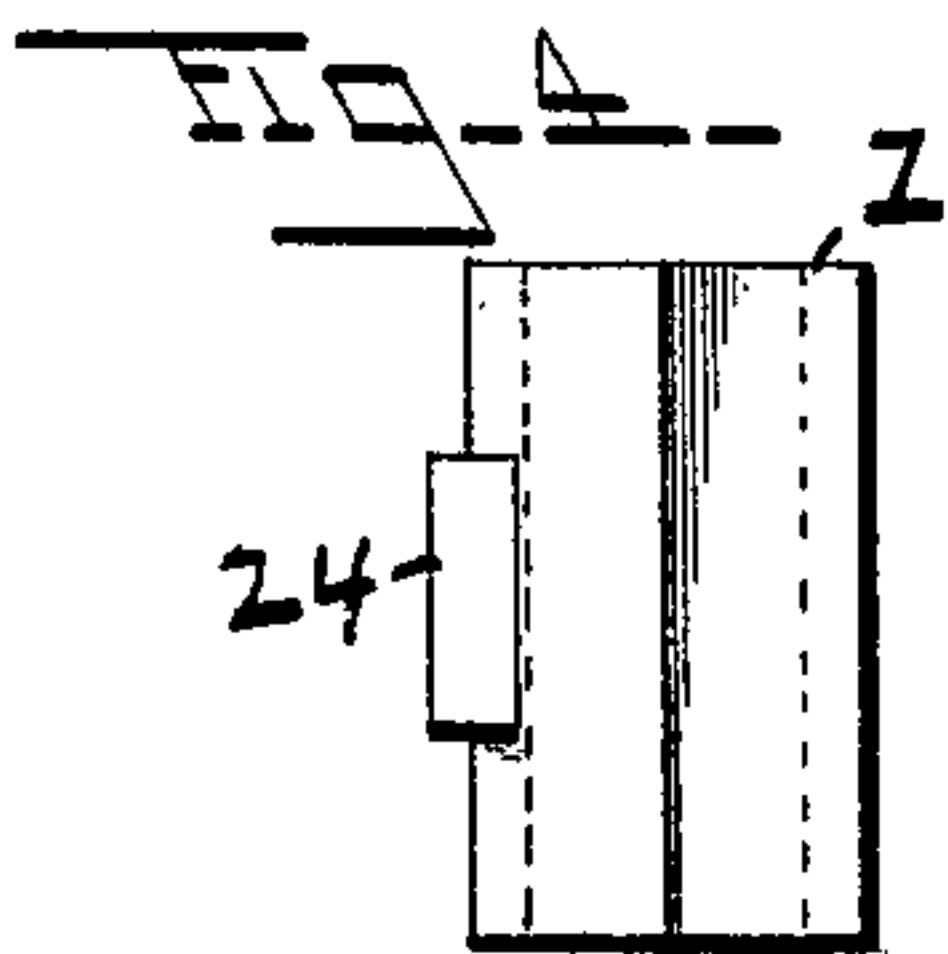
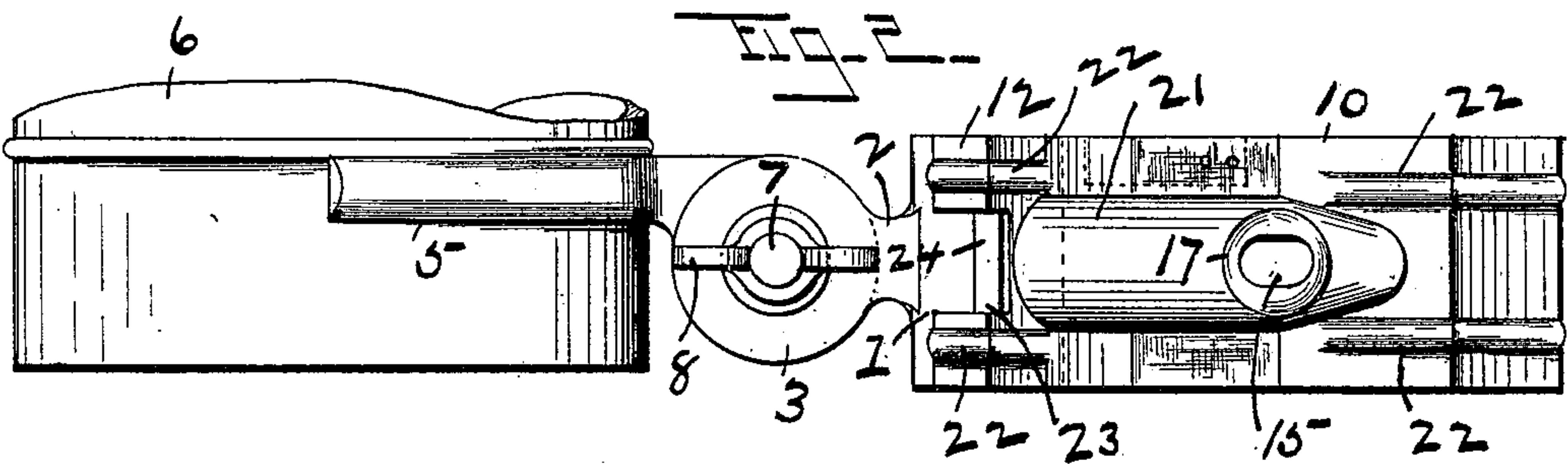
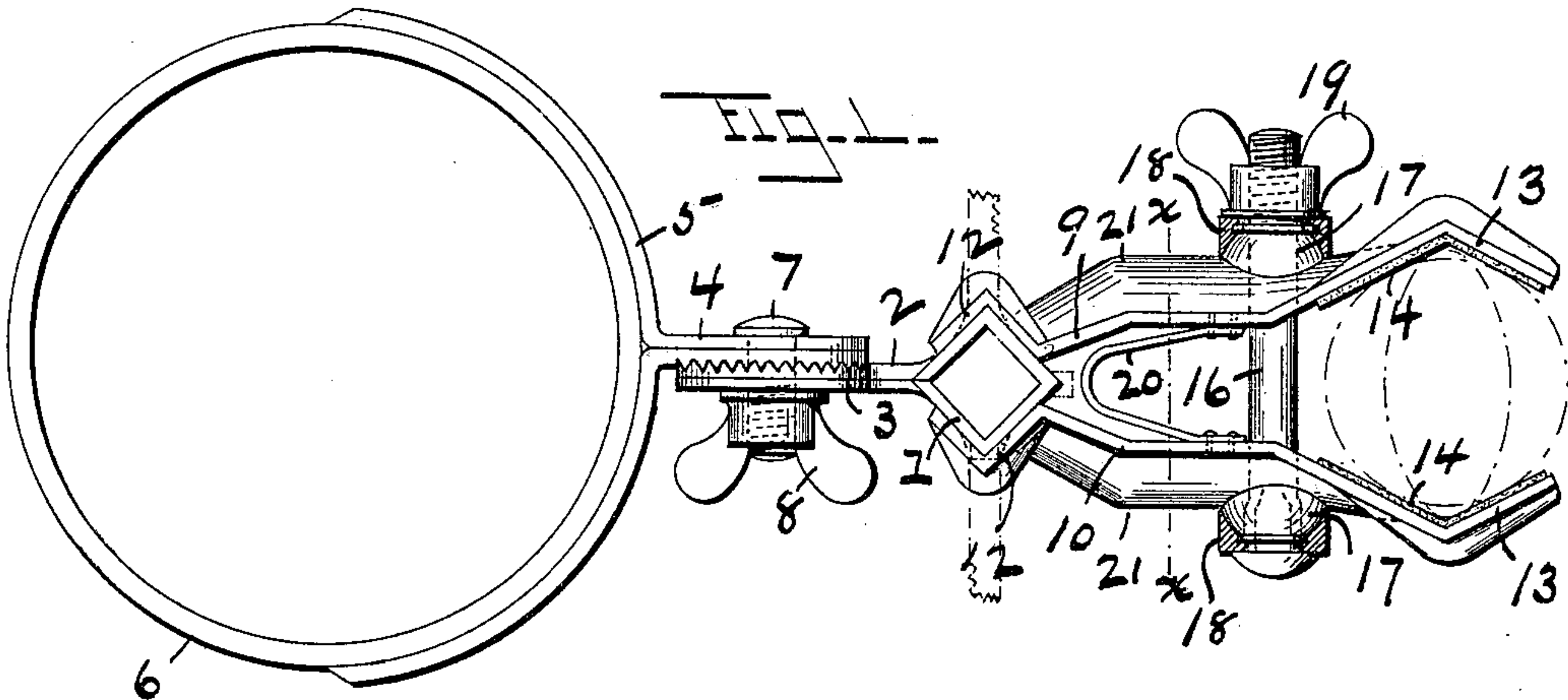
Patented May 30, 1899.

F. L. WHITE & W. F. GOELTZ.

LAMP SUPPORT.

(Application filed Mar. 14, 1898.)

(No Model.)



Witnesses.

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# UNITED STATES PATENT OFFICE.

FREDERICK L. WHITE AND WILLIAM F. GOELTZ, OF WATERBURY, CONNECTICUT, ASSIGNORS TO GEORGE H. CLOWES, OF SAME PLACE.

## LAMP-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 625,944, dated May 30, 1899.

Application filed March 14, 1898. Serial No. 673,767. (No model.)

*To all whom it may concern:*

Be it known that we, FREDERICK L. WHITE and WILLIAM F. GOELTZ, citizens of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Lamp-Supports, of which the following is a specification, reference being had therein to the accompanying drawings.

Our invention relates to devices for securing lamps to the frame of a bicycle or other vehicle; and it has for its object to provide a device for this purpose which will securely hold the lamp in several different positions horizontally and at any desired angle vertically and can itself be readily secured to different parts of a bicycle-frame or to the dashboard of an ordinary vehicle.

To this end our invention consists in the lamp holding and adjusting device constructed and operating as hereinafter fully described, and particularly pointed out in the claims.

Referring to the drawings, in which like numerals designate like parts in the several views, Figure 1 is a plan view of a lamp-holding device embodying our invention. Fig. 2 is a side view thereof with the clamping-bolt removed. Fig. 3 is a cross-section of the clamping-arms, taken at line *x x* of Fig. 1. Fig. 4 is an outer end view of the lamp-supporting post.

The numeral 1 designates a post which is rectangular in cross-section and which is preferably of hollow form, as shown in Fig. 1, from which post projects an arm 2, which terminates in a disk 3, one of the faces of which is roughened or provided with ratchet-teeth. A similar disk 4 has a roughened or toothed face which abuts against that of disk 3 and carries means whereby it can be secured to a lamp, such means, as herein shown, consisting of a bow-shaped arm 5, adapted to be soldered or otherwise secured to the lamp-body 6, while a bolt 7, passing centrally through said disks, and a thumb-nut 8, applied to said bolt, serve to lock them in any position of angular adjustment, thus permitting the lamp to be adjusted to any desired angle vertically to the axis of the post 1. To engage and hold the

post 1, we have devised a bracket composed of two arms 9 10, which are provided at one end with V-shaped jaws 12, adapted to embrace two opposite corners of the said post, and at their opposite end with V-shaped jaws 13 of a greater angle, which are adapted to closely engage either the round steering-head of a bicycle or the flattened spherical fork thereof, as shown by broken lines in Fig. 1, the inner face of said latter jaws being preferably provided with a suitable facing 14, of leather or felt, to prevent marring the surface of the part grasped thereby. Between said two sets of jaws the arms 9 10 are provided with holes 15 to receive the bolt 16 and with rounded bosses 17 at the outer margins of said holes, to which bosses are applied washers 18, having a rounded inner surface. The bolt 16 passes through said holes in the arms and through said washers and receives upon its threaded end the thumb-nut 19. A bow-spring 20 is preferably interposed between said arms and secured thereto at its ends by rivets, as shown in Fig. 1, which spring tends to open the two sets of jaws, while it prevents the complete separation of the arms. The arms 9 10 are preferably provided with the large central rib 21 and with the smaller ribs 22 near their opposite ends, extending longitudinally thereof to increase their rigidity, they being preferably stamped from sheet metal.

The ends of the arms 9 10 at which the jaws 12 are located are provided with the open recess 23, and the post 1 is provided with a projecting lug 24, which in the position of the parts shown by full lines in Figs. 1 and 2 enters said recess in the arm 10 and sustains the post from vertical movement. From such position the post and its attached parts can be swung both to the right and left to a position at a right angle to its first position, as shown by broken lines in Fig. 1, by first loosening the arms by unscrewing the thumb-nut 19, the arm 2 of said post in the latter positions entering the recesses in the clamp-arms and holding it from vertical movement. Such facility of adjustment enables the lamp to be carried directly in front of the part to which it is secured or to the



right or left side thereof, as may be desired, the lamp being rigidly held in either position.

By reference to Fig. 2, it will be observed that the holes 15 in the clamp-arms are made slightly oblong, and the slight freedom of movement thus afforded to the bolt 16, taken in connection with the rounded bosses 17 and washers 18, prevents any cramping action between the bolt and arms and enables the jaws at the ends of the arms to adapt themselves to any slight inequalities in the surface of the parts which they engage.

The shape of the jaws 13 is such that they are not only adapted to securely engage different parts of a bicycle-frame, but also the edge of the dashboard of the ordinary four-wheeled vehicle, thus affording a wide range of usefulness to the clamping device.

The lamp-holding means herein described is quickly and easily adjusted to secure any desired position of the lamp, is very strong and durable, and presents a pleasing appearance when in use. Modifications in the details of construction herein shown and described can be made within the scope of our invention.

Having thus fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination with a bow-shaped bracket adapted to partially embrace a lamp-body and provided with a projecting disk having one of its faces toothed or roughened, of a polygonal post having an arm projecting laterally therefrom at a point substantially midway between its ends and terminating in a disk having one of its faces toothed or roughened, a bolt and thumb-nut centrally applied to said disks to hold their roughened faces in locked engagement, two clamping-arms terminating at one end in V-shaped jaws which are adapted to closely engage said polygonal post, and, at their opposite end, in two V-shaped jaws of a greater angle, a clamping-bolt passing transversely through said arms between said two sets of jaws, and a thumb-nut applied to said bolt, substantially as described.

2. The combination with a polygonal post having an arm projecting laterally therefrom at a point substantially midway between its ends and having a lug projecting therefrom at substantially a right angle to said arm, of a lamp-body secured to said arm by a pivotal connection which is perpendicular to the axis of said post, two clamping-arms terminating at one end in two V-shaped jaws adapted to closely engage said post and having said ends provided with an open recess to receive the arm or lug on said post when the latter is turned about its axis, said arms terminating at their opposite end in two V-shaped jaws of a greater angle, and a clamping-bolt and thumb-nut applied to said arms between their ends, substantially as set forth.

3. The combination with a lamp-body, of a

polygonal post connected to said body by a pivot-joint which is perpendicular to the axis of said post, two clamping-arms terminating at one end in two jaws adapted to closely engage said post, and, at their opposite end, in two jaws of a greater capacity and adapted to closely engage either the steering-head or fork of a bicycle, a clamping-bolt and thumb-nut applied to said arms for forcing them together, and a spring interposed between said arms and secured at its ends to the latter respectively, said spring tending to move the arms away from each other, substantially as set forth.

4. The combination with a lamp-body, of a polygonal post having a pivotal connection with said body, two clamping-arms terminating at one end in two jaws adapted to closely engage said post, and, at their opposite end, in two jaws of a greater capacity, said arms being provided, between their ends, with a hole to receive a clamping-bolt and with a rounded boss surrounding said hole, at their outer side, two washers having a rounded inner surface to engage said bosses on said arms, and a clamping-bolt passing through said holes and washers and having a thumb-nut applied to the end thereof, substantially as described.

5. The combination with the hollow, rectangular post 1 having projecting therefrom the arm 2 and lug 24, said arm terminating in the disk 3, of the bow-shaped bracket 5 carrying disk 4, bolt 7 and thumb-nut 8 for locking said disks together, clamping-arms 9 10 terminating at one end in the V-shaped jaws 12 which support the said post and having said ends provided with the open recesses 23 within which the said lug 24 is inserted and terminating at their opposite end in the V-shaped jaws 13 of a greater angle, and bolt 16 and thumb-nut 19 applied to said arms, between said pairs of jaws, substantially as described.

6. The combination with the arms 9 10 terminating at their opposite ends in the V-shaped jaws 12 13 of unequal size, of spring 20 secured at its opposite ends to said arms respectively, and clamping-bolt 16 and its thumb-nut applied to said arms for forcing them toward each other in opposition to the stress of said spring, substantially as described.

7. The combination with a lamp-bracket having arms terminating at one end in two oppositely-disposed jaws, the said jaws being provided with open recesses, of an independent supporting-post having means attached thereto for securing a lamp-body thereon and adapted to be engaged by the said jaws; and means, as projections upon the said post, for sustaining the said post within the said jaws, substantially as described.

8. The combination with a lamp-bracket having arms terminating at one end in two oppositely-disposed jaws, the said jaws being provided with open recesses, of an independent supporting-post having means attached



thereto for securing a lamp-body thereon, and adapted to be engaged between the said jaws, the said post being provided with one or more projections which are adapted to enter the  
5 said open recesses and support the said post, substantially as described.

9. The combination with a lamp-bracket having arms terminating at one end in two oppositely-disposed jaws, the said jaws being  
10 provided with open recesses, of an independent supporting-post, rectangular in cross-section and having an arm and lug projecting

laterally therefrom, the said arm and lug being so arranged that one will be in the recess of one of said arms in any of the adjusted po- 15  
sitions of the said post, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

FREDERICK L. WHITE.

WILLIAM F. GOELTZ.

Witnesses:

GEORGE E. HALL,

EDWARD R. LEZOTT.