

No. 634,505.

Patented Oct. 10, 1899.

J. P. SCHOWALTER & G. A. ROSENBAUER.
HANDLE BAR.

(Application filed Jan. 19, 1898.)

(No Model.)

Fig. 3.

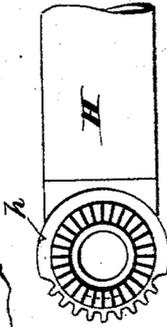
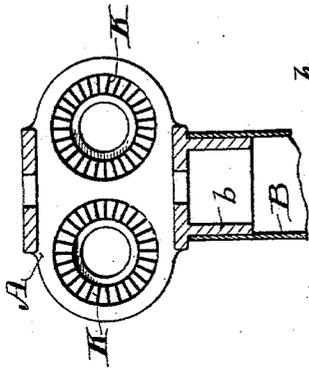


Fig. 4.

Fig. 5.

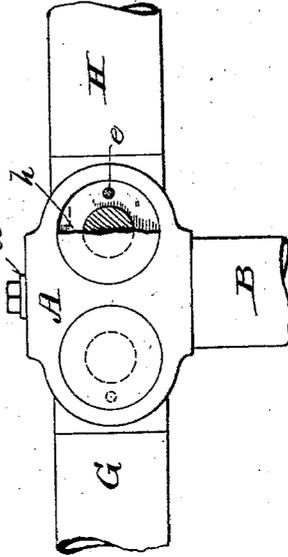


Fig. 1.

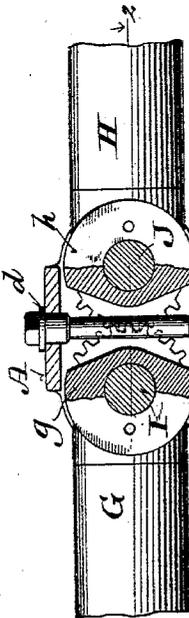
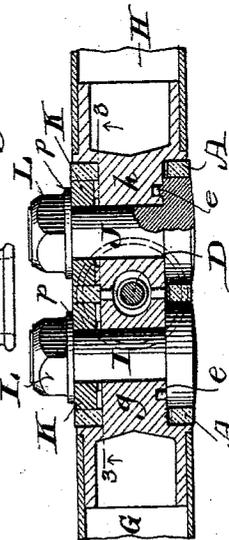


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOSEPH P. SCHOWALTER AND GEORGE A. ROSENBAUER, OF MILWAUKEE, WISCONSIN, ASSIGNORS TO THE SANGER HANDLE BAR AND PLATING COMPANY, OF SAME PLACE.

HANDLE-BAR.

SPECIFICATION forming part of Letters Patent No. 634,505, dated October 10, 1899.

Application filed January 19, 1899. Serial No. 702,677. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH P. SCHOWALTER and GEORGE A. ROSENBAUER, citizens of the United States, and residents of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Bicycle Handle-Bars; and we do hereby declare that the following is a full, clear, and exact description thereof.

Our invention has for its object to simplify and cheapen the manufacture of bicycle handle-bars having grip members adjustable to various angles and also to utilize shank-expanders as parts of said handle-bars.

A further object of our invention is to overcome sticking of the shank-expanders.

With these objects in view our invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents an elevation of a portion of our improved handle-bar, partly broken and in section; Figs. 2 and 3, detail sectional views respectively indicated by lines 2 2 and 3 3 in the first figure; Fig. 4, a detail elevation of a portion of one of the adjustable grip members of the handle-bar, and Fig. 5 a side elevation of the assembled parts of the device having a broken pivot-bolt.

Referring by letter to the drawings, A indicates a metallic angular shell constituting a hollow head, having a depending stem *b*, to which is brazed a tube B, herein shown as having longitudinal kerfs *c* at intervals circumferentially of its lower end. The head-stem and tube in rigid union therewith constitute the shank of our improved handle-bar, designed for vertically-adjustable connection with the steering-fork shank of a bicycle. Arranged to turn in the head A is a rod D, and the lower end of this rod has screw-thread connection with a conical block or shell E, engaging the kerfed end of said shank to constitute an expander for the same. The upper end of the rod is squared to accommodate a wrench and provided with a stop-flange *d*, that rests upon the head afore-

said. Rotatory movement of rod D operates to effect vertical adjustment of the expander E, with which it has screw-thread connection.

Gear-toothed rounded inner ends *g h* of handle-bar grip members G H are arranged on pivot-bolts I J within head A to mesh with each other, and the toothed faces of these grip-member extremities are peripherally grooved to afford clearance for the expander-adjusting rod above specified. The head of each pivot-bolt is made round to fit a corresponding aperture in the head A, and the flat inner side of the bolt-head comes snug against the rounded toothed end of the corresponding grip member of the handle-bar. As herein shown, each bolt-head may be provided with an inwardly-extending lug *e*, that engages a socket in the adjacent grip member, and thus the latter and its pivot-bolt are in lock with each other to turn together. The toothed end of each grip member G H has that side thereof farthest from the head of its corresponding pivot-bolt provided with a circular series of radial wedge-ribs, and this ribbed surface meshes with a similar inner surface on a disk K, made fast in a corresponding side aperture of the handle-bar head, each disk being centrally apertured for the engagement therewith of a pivot-bolt. Washers *p* and clamp-nuts L engage the aforesaid pivot-bolts outside the head of the handle-bar, and by loosening the nuts slack is had to permit disengagement of the opposing wedge-rib surfaces, so that the grip members G H may be readily adjusted to various angles, said grip members and pivot-bolts turning together in said head. The adjustment having been effected, tightening of the loosened nuts will cause locking together of opposing wedge-rib surfaces above specified to maintain the grip members at the desired angle, the handle-bar being then rigid at all points.

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

A bicycle handle-bar comprising a hollow head provided with a depending tubular shank longitudinally kerfed at intervals circumferentially of its lower end, an expander engaging the kerfed end of the shank, a rod

that turns in the head and has screw-thread
connection with the expander, grip members
having rounded toothed ends in pivotally-
adjustable connection with said head to mesh
5 with each other therein, and means for main-
taining pivotal adjustment of the grip mem-
bers, the toothed faces of these grip mem-
bers being grooved to afford clearance for the
expander-adjusting rod.

In testimony that we claim the foregoing 10
we have hereunto set our hands, at Milwau-
kee, in the county of Milwaukee and State of
Wisconsin, in the presence of two witnesses.

JOS. P. SCHOWALTER.

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