

No. 631,645.

Patented Aug. 22, 1899.

M. A. KLEINSTEUBER.
BICYCLE HANDLE BAR.

(Application filed Sept. 20, 1898.)

(No Model.)

Fig. 1.

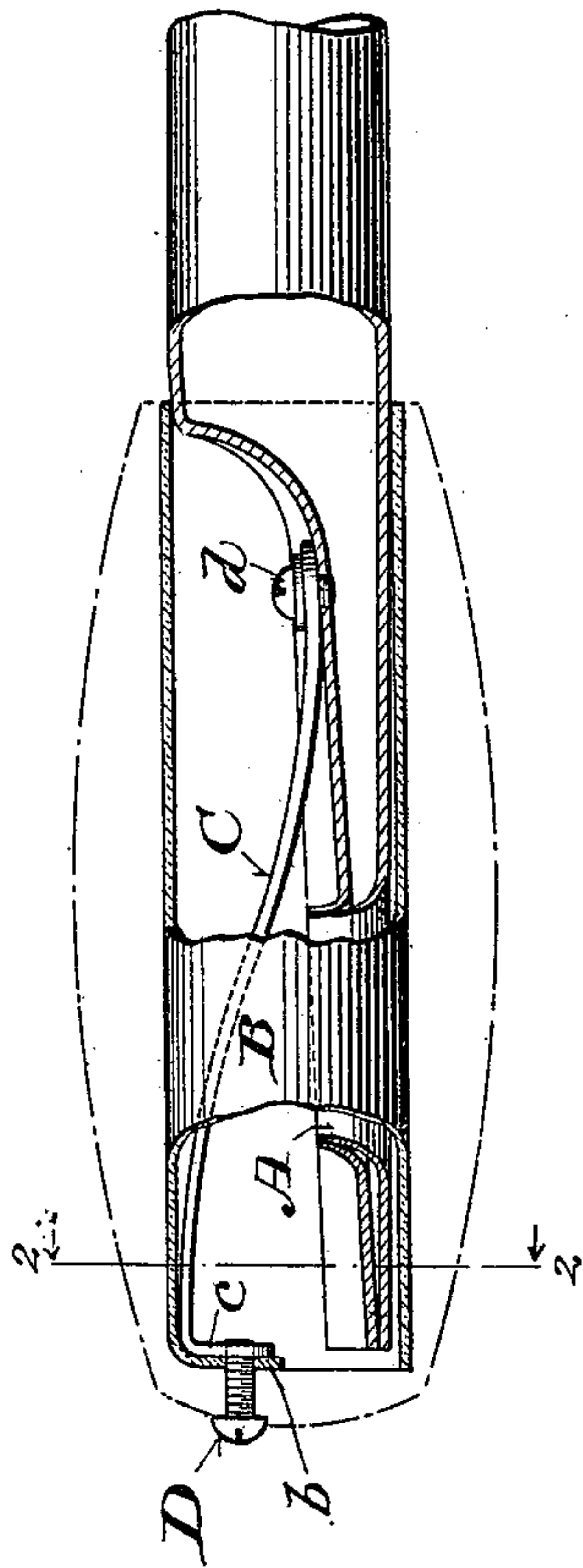
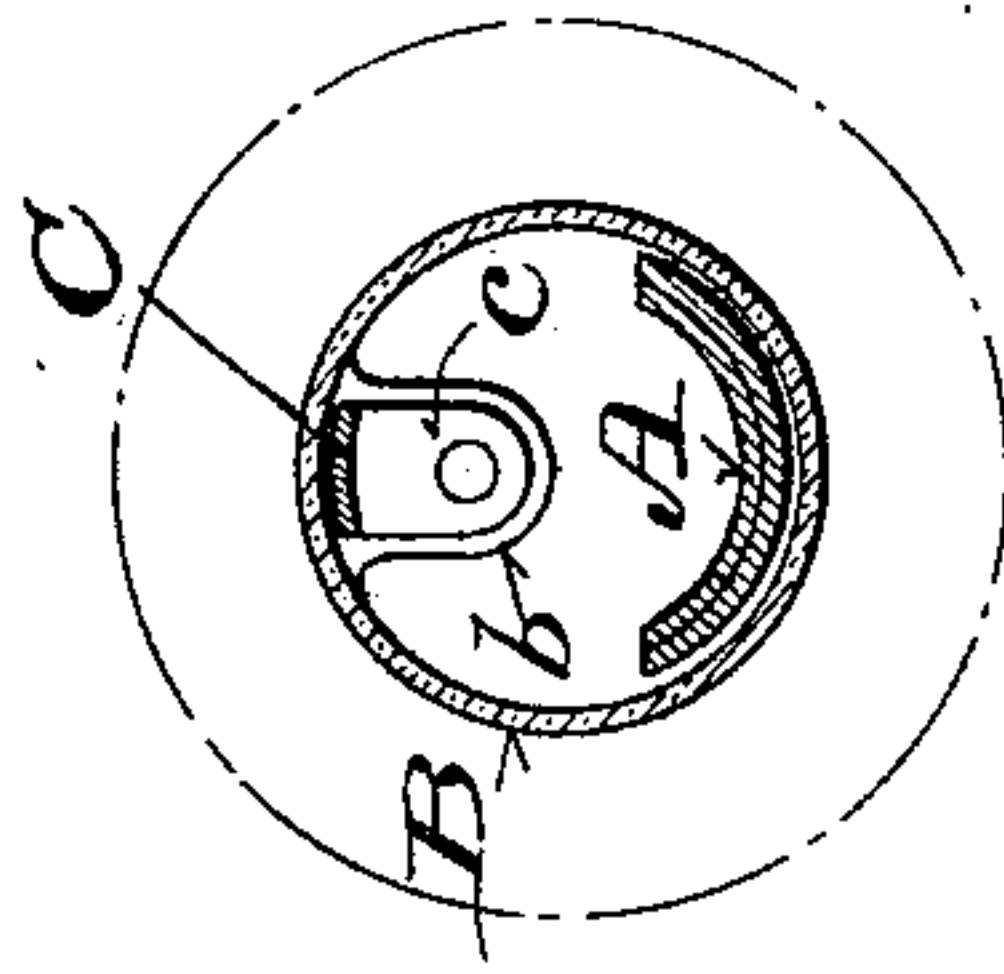


Fig. 2.



Witnesses:
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UNITED STATES PATENT OFFICE.

MONROE A. KLEINSTEUBER, OF MILWAUKEE, WISCONSIN, ASSIGNOR OF TWO-THIRDS TO EDWARD PORTH AND HENRY P. ANDRAE, OF SAME PLACE.

BICYCLE HANDLE-BAR.

SPECIFICATION forming part of Letters Patent No. 631,645, dated August 22, 1899.

Application filed September 30, 1898. Serial No. 692,310. (No model.)

To all whom it may concern:

Be it known that I, MONROE A. KLEINSTEUBER, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Bicycle Handle-Bars; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to absorb vibration that otherwise unpleasantly affects the hands and arms of a bicycle-rider. Therefore said 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 a partly-sectional longitudinal elevation of a preferred construction and arrangement of parts that come within the scope of my invention, and Fig. 2 a transverse sectional view indicated by line 2 2 in the preceding figure.

Referring by letter to the drawings, A represents one end of a metal-tube bicycle handle-bar having a swaged reduction, as herein shown, to provide clearance for yield on the part of a grip in spring connection therewith, as hereinafter more particularly described; but the handle-bar may be of solid material, such as wood, shaped at each end to provide the clearance aforesaid.

As a matter of detail I show a sleeve B, constituting a grip-lining, this sleeve being preferably made from thin-gage metal tubing long enough to a little more than cover an end reduction of handle-bar, and said sleeve may be fast or otherwise in the grip of which it forms a part, the remainder of said grip being shown by dotted lines. The outer end of the sleeve or grip-lining is herein shown provided with an inturned tongue *b* at its greatest elevation, and this tongue is parallel to the inturned right-angle outer end *c* of a bent spring-metal plate C, the latter being made fast at its other end on the adjacent end reduction of the handle-bar by a screw *d* or otherwise, as found most convenient.

Extending through the outer end of the grip, above the center, is a screw D, that engages the inturned tongue *b* of grip-lining B and the parallel end *d* of spring C; but if said lining be made fast in the grip it may be found

practical to omit the aforesaid tongue and have the closed outer end of said grip abut the inturned end of the spring. The lining-sleeve is utilized for the reason that grips as ordinarily made for full round ends of bicycle handle-bars are not sufficiently stiff for my purpose.

Readiness of yield on the part of a grip depends upon stiffness of spring resistance, and the latter may be as varied as styles of handle-bars, it being preferable to employ the stiffest springs with handle-bars having the greatest drop; but it is intended that said spring resistance shall always be sufficient to prevent undue yield of a grip in the grasp of a mounted bicycle-rider.

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

1. A bicycle handle-bar having its ends reduced to obtain grip clearance, and bent spring-metal plates made fast at their inner ends on the end reductions of the bar, the upper outer ends of these plates being made to have detachable connection with grip-securing devices.

2. A bicycle handle-bar reduced at its ends to obtain grip clearance, bent spring-metal plates made fast at their inner ends on the end reductions of the handle-bar, bar-engaging grips, and means for uniting the upper outer ends of the spring-plates and the grips, the latter being otherwise out of union with said handle-bar.

3. A bicycle handle-bar reduced at its ends to obtain grip clearance, bent spring-metal plates made fast at their inner ends on the end reductions of the handle-bar, bar-engaging sleeves constituting grip-linings provided at their outer ends with inturned tongues, and grip-securing devices engageable with the sleeve-tongues and upper inturned outer ends of said plates, said sleeves and the grips thereon being otherwise out of union with said handle-bar.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

MONROE A. KLEINSTEUBER.

Witnesses:

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B. C. ROLOFF.