

(No Model.)

J. M. HORTON & M. M. LEVISON.  
VELOCIPED HANDLE.

No. 421,936.

Patented Feb. 25, 1890.

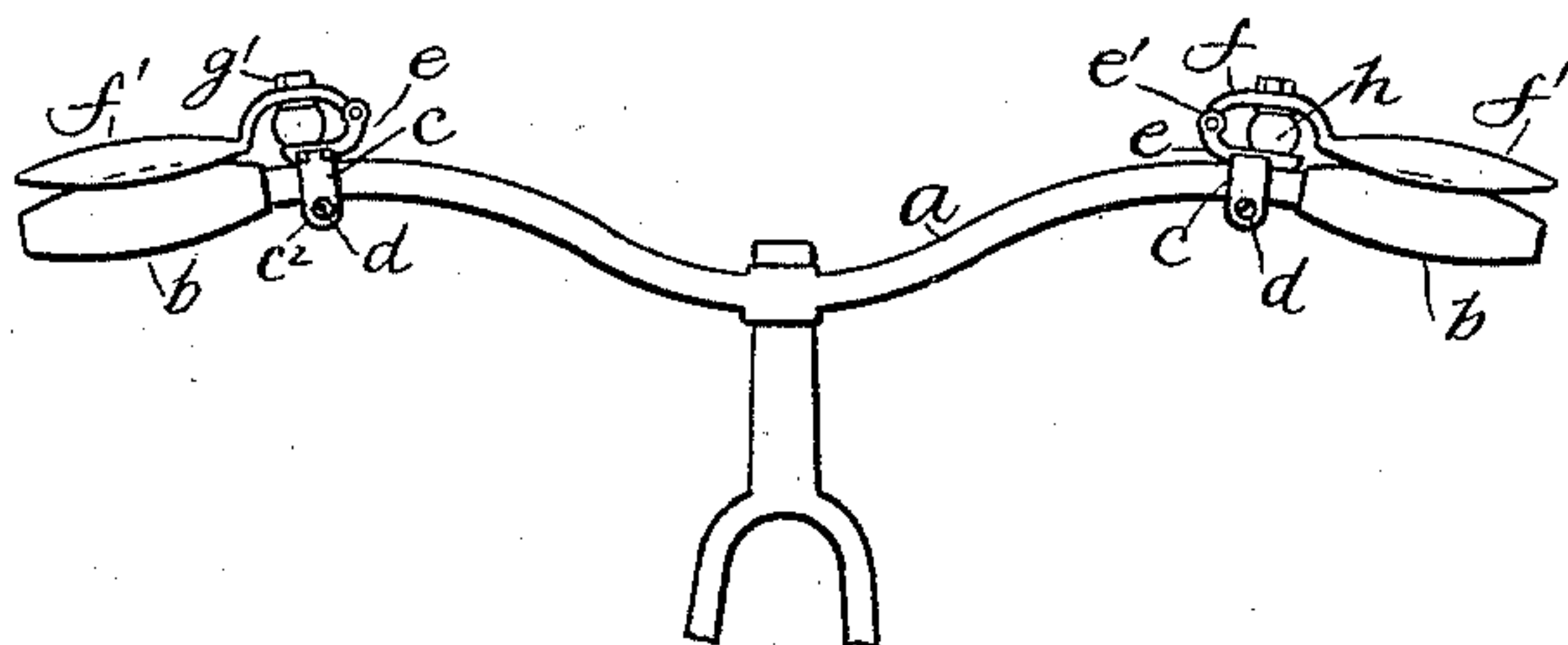


FIG. 1.

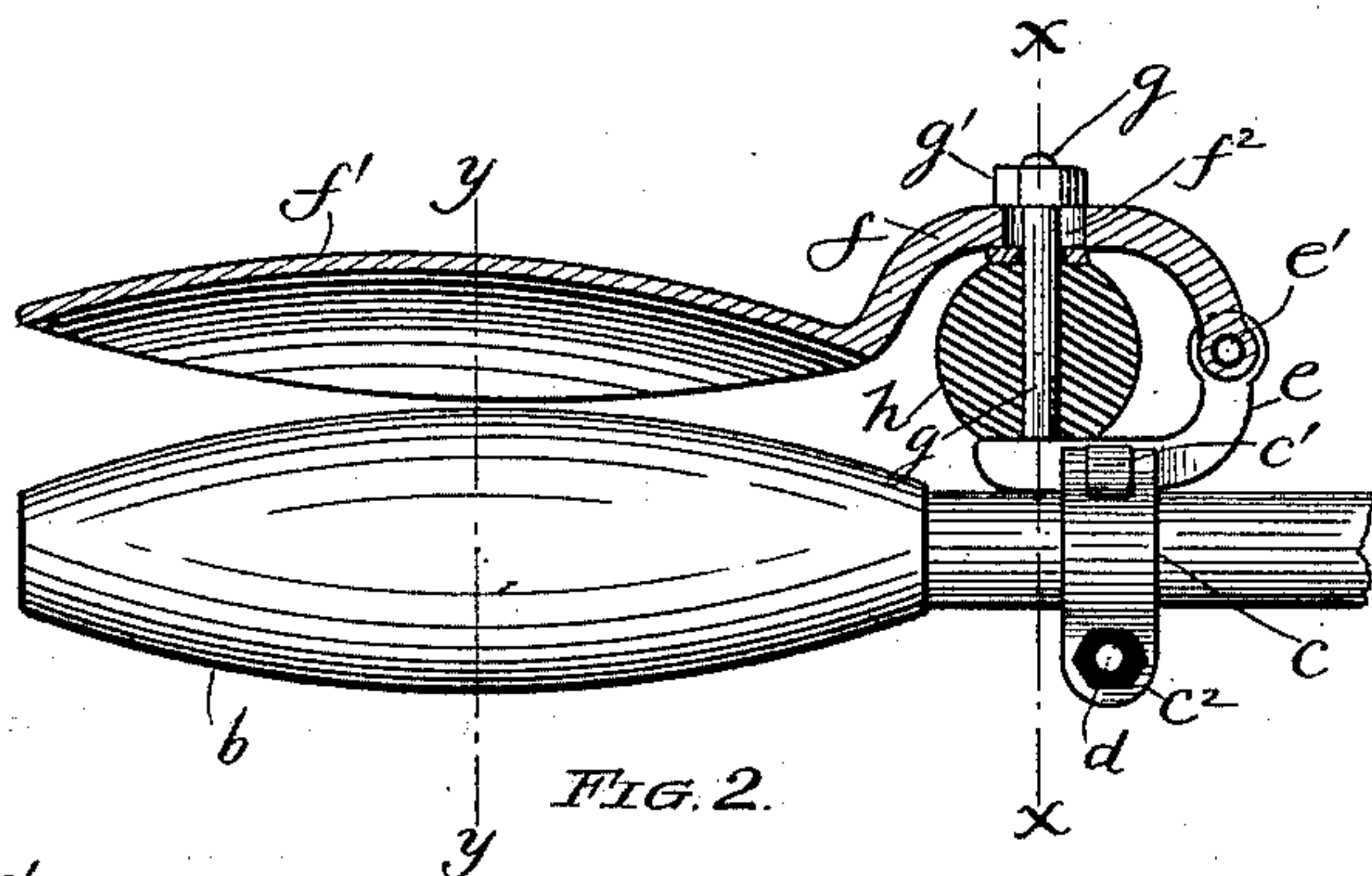


FIG. 2.

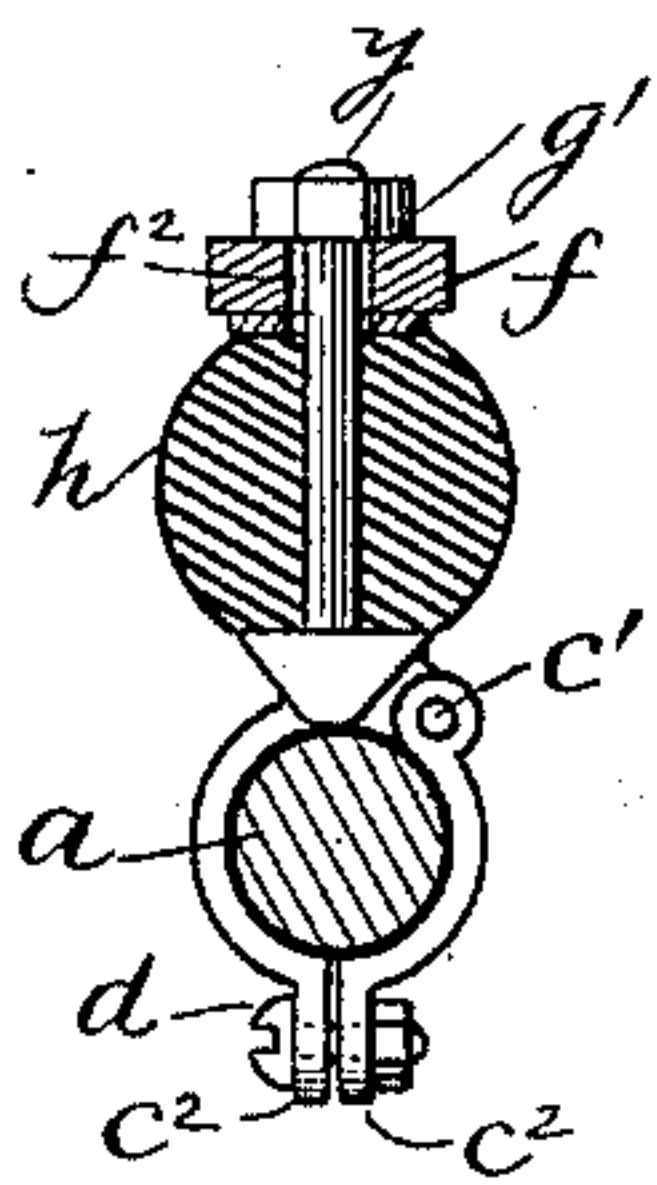


FIG. 3.

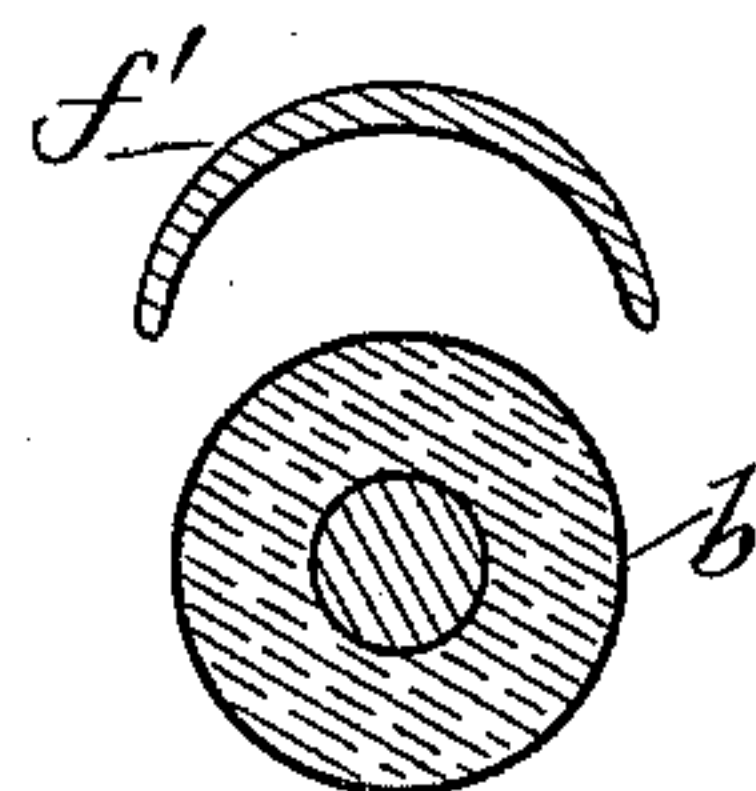


FIG. 4.

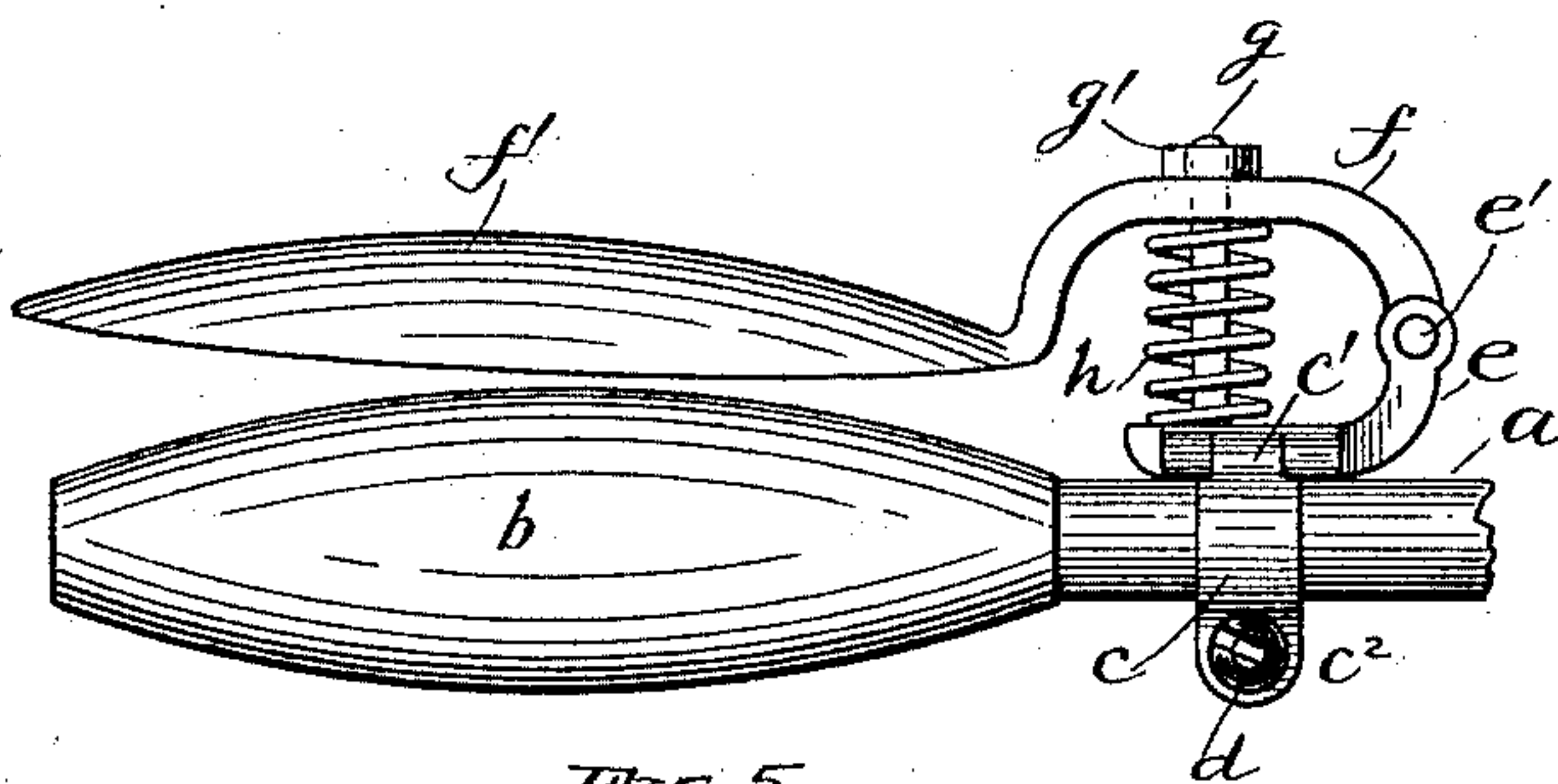


FIG. 5.

Witnesses:

J. Halpenny.  
David Spring.

Inventor:

James M. Horton  
Michael M. Levison,  
By Bradley & Fitch,  
their Attys.

# UNITED STATES PATENT OFFICE.

JAMES M. HORTON AND MICHAEL M. LEVISON, OF CHICAGO, ILLINOIS.

## VELOCIPED-HANDLE.

SPECIFICATION forming part of Letters Patent No. 421,936, dated February 25, 1890.

Application filed January 10, 1890. Serial No. 336,509. (No model.)

*To all whom it may concern:*

Be it known that we, JAMES M. HORTON and MICHAEL M. LEVISON, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Velocipede-Handles, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a face view of the steering-bar and handles of a velocipede, showing our improvement applied thereto. Fig. 2 is an enlarged detail view of a handle, showing our improvement attached thereto, the same being shown in section. Fig. 3 is a transverse sectional view taken upon the line  $x x$ , Fig. 2. Fig. 4 is a like sectional view taken upon the line  $y y$ , Fig. 2; and Fig. 5 is an enlarged side view of a handle and shield, showing a modified form of construction.

Like letters of reference in the different figures indicate corresponding parts.

Our invention relates to velocipede-handles, the object being to relieve the hands of the rider from the jar of the machine; and it consists in the combination of elements hereinafter more particularly described and claimed.

Referring to the drawings,  $a$  represents the steering-bar of a velocipede or bicycle, while  $b b$  are the handles. Attached to the cross-bar  $a$  at or near the handles we provide clips  $c$ , which are made to surround said bar, and are preferably hinged at  $c'$ , so as to be readily attached to or removed from the bar. Perforated flanges  $c^2 c^2$  are formed upon said clip, through which is passed a bolt  $d$ , secured by a nut, upon tightening which the clip may be rigidly clamped to the bar. An upwardly-bent lug  $e$  is formed upon said clip, to the upper end of which is hinged at  $e'$  a lever  $f$ , the free end of which is expanded into a convexo-concave shield  $f'$ , substantially parallel with but separated from the handle  $b$ . A

stud or pin  $g$  is rigidly attached to the base of the lug  $e$ , from which it extends upwardly, as shown, through an enlarged bore  $f^2$  of the lever  $f$ , and is provided with a nut  $g'$ . A spring  $h$ , which may consist either of a rubber ball, as shown in Fig. 2, or a spiral spring, as in Fig. 5, is interposed between the base of the clip  $e$  and said lever, said spring being held in place by the stud  $g$ .

It is obvious that in using said machine the weight of the hands of the operator may be normally borne by the spring  $h$ , which prevents all jar, while upon grasping the handle with the shield and compressing the latter the machine may be steered with the utmost accuracy.

The advantage of our improvement is that it may be attached to any machine by merely clamping the clips to the steering-bar, the shape of the attachment being varied to suit different styles of handles.

Having thus described our invention, we claim—

1. The combination, with the steering-bar of a velocipede, of a clip, a lever hinged thereto, the free end of which is made in the form of a shield to conform to the shape of the handle, and a spring-fulcrum interposed between said hinge and the shield-shaped portion, substantially as shown and described.

2. The combination, with the steering-bar and handle of a velocipede, of a detachable clip, lug  $e$ , secured to said clip, lever  $f$ , having shield-shaped portion  $f'$ , hinged to said lug, and spring  $h$ , substantially as shown and described.

In testimony whereof we have signed this specification, in the presence of two subscribing witnesses, this 6th day of January, 1890.

JAMES M. HORTON.  
MICHAEL M. LEVISON.

Witnesses:

D. H. FLETCHER,  
J. HALPENNY.