

(No Model.)

H. JOHNSON.
SWIVEL FOR BRIDLES.

No. 379,537.

Patented Mar. 13, 1888.

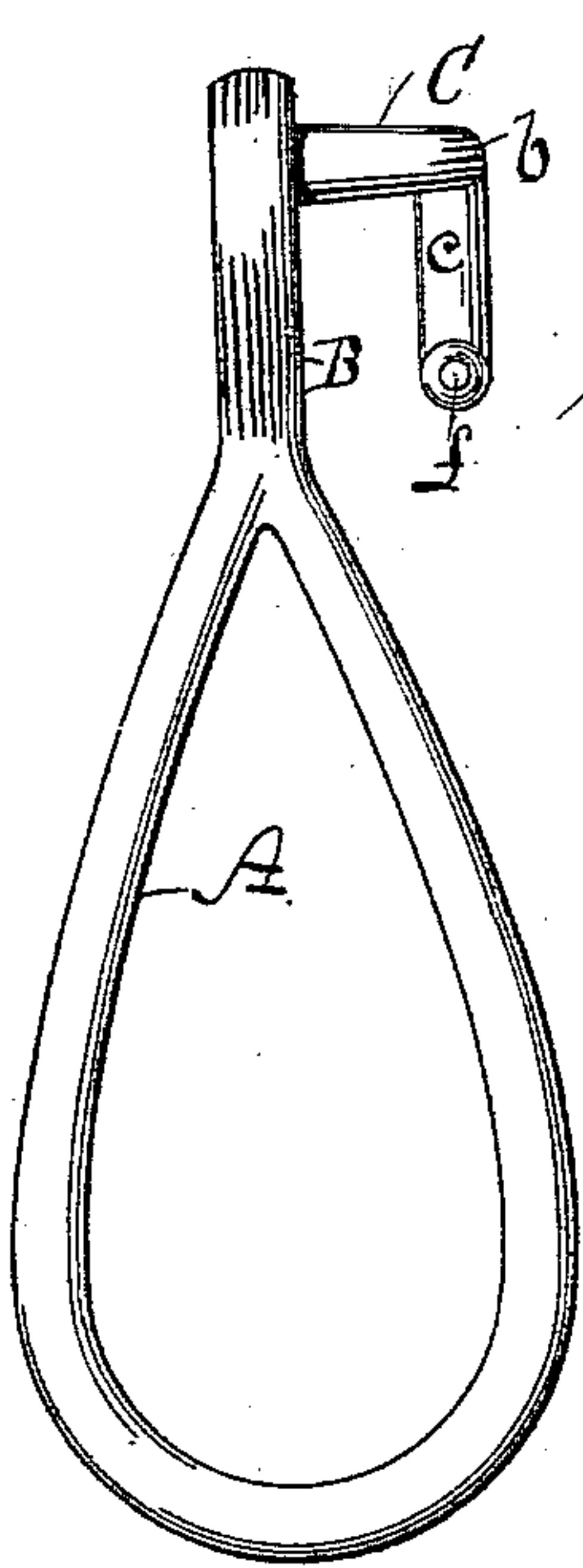


FIG. 1.

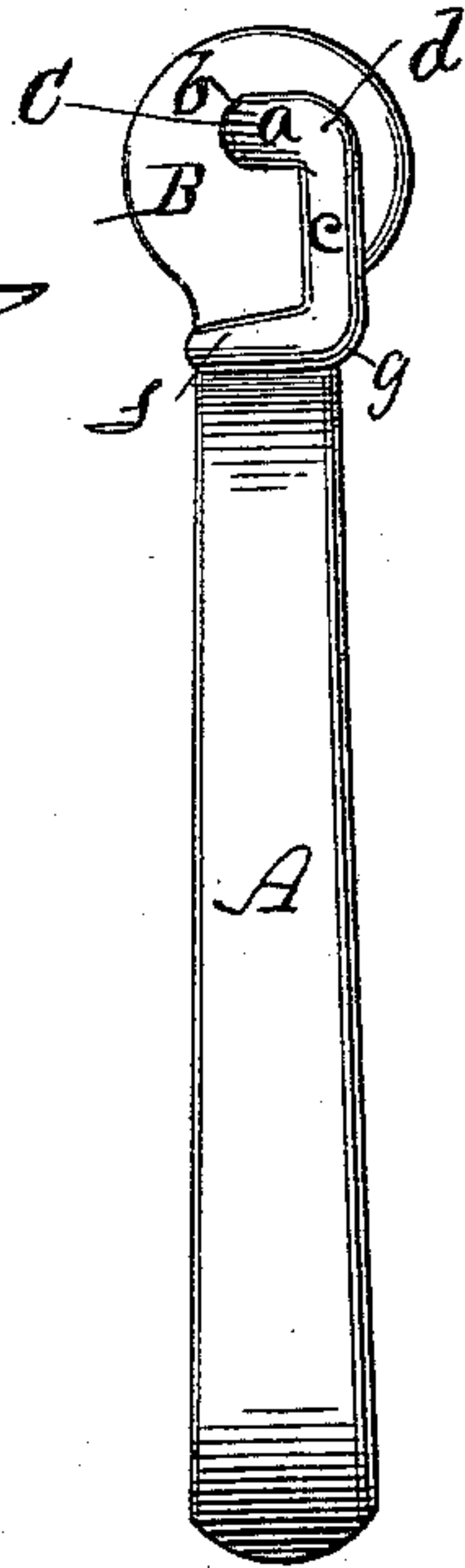


FIG. 2.

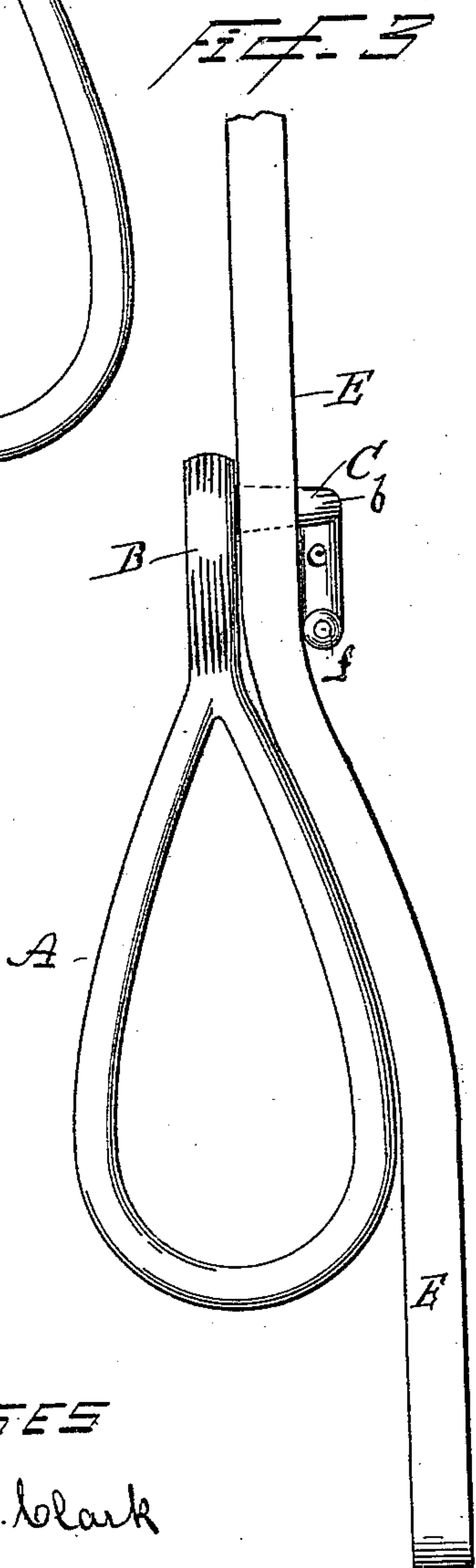


FIG. 3.

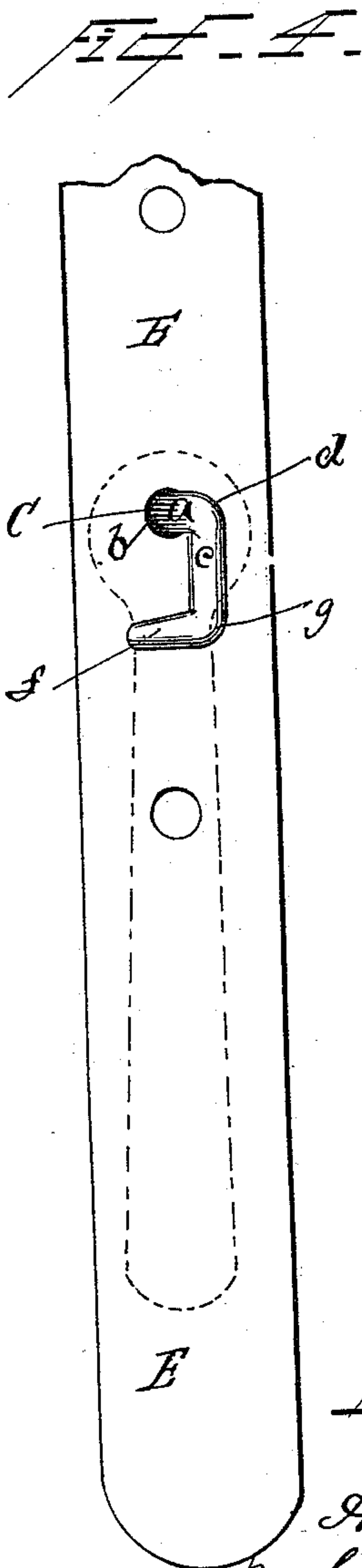


FIG. 4.

WITNESSES

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UNITED STATES PATENT OFFICE

HENRY JOHNSON, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE SARGEANT MANUFACTURING CO., OF SAME PLACE.

SWIVEL FOR BRIDLES.

SPECIFICATION forming part of Letters Patent No. 379,537, dated March 13, 1888.

Application filed November 30, 1887. Serial No. 256,534. (No model.)

To all whom it may concern:

Be it known that I, HENRY JOHNSON, a citizen of the United States, residing in Newark, in the county of Essex and State of New Jersey, have invented an Improved Swivel; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making part of this specification.

My invention relates to the improved device by which the swivel is removably attached to the strap or billet of a bridle or headstall, as hereinafter set forth.

In the accompanying drawings, Figure 1 represents a side view of the swivel; Fig. 2, a rear view of the same; Fig. 3, an edge view of a portion of a strap or billet of the bridle or harness to which the swivel is attached, showing the swivel suspended therefrom by the improved attaching device; Fig. 4, a rear view of the same.

Like letters designate corresponding parts in all of the figures.

In the drawings, A represents the loop of the swivel; B, the swivel-plate, and C the stud, which enters a hole in the strap or billet for attaching and suspending the swivel.

My invention consists in the improved construction of the extensions at the outer end of the suspending-stud, whereby they may be passed through a hole in the strap or billet no larger than the diameter of the stud, either for attaching or detaching the swivel, and whereby the stud is securely retained in the hole of the strap or billet and is held squarely in front of the same, while it is allowed to swing freely on its stud as a pivot. These extensions of the stud are as follows: First, a short extension, *a*, next to the stud is connected therewith by an abrupt bend, *b*, substantially at right angles, but rounded at the outer corner. A second ex-

tension, *c*, is bent abruptly and approximately at right angles to the first extension, the outer angle, *d*, of the bend being rounded. A third extension, *f*, is bent abruptly and approximately at right angles to the second extension, the outer angle, *g*, of this bend being rounded. This last extension is in the direction opposite to the first extension, and is preferably nearly or exactly parallel to the same and somewhat longer, so that it may reach past the central line of the stud. All of the extensions are to be substantially in the same plane parallel with the rear surface of the swivel-plate B, from which the stud C projects, as shown in Figs. 1 and 3. The several extensions, as seen in Fig. 4, form a sufficient surface to bear against the back of the strap or billet E and hold the swivel squarely in front of the same, and it is impossible to accidentally detach the swivel from the strap, although it is not difficult to attach and detach it by warping the strap, as the turns are made around the angles.

The whole swivel is generally made in one piece, cast and finished, and the stud-extensions are rigid.

I claim as my invention—

The swivel composed of the loop A, swivel-plate B, and stud C, having the short extension *a*, connected with the stud by the abrupt bend *b*, the second extension, *c*, connected with the first extension by the abrupt bend *d*, and the third extension, *f*, connected with the second extension by the abrupt bend *g*, as herein specified.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY JOHNSON.

Witnesses:

S. H. SARGEANT,
C. C. KENDALL.