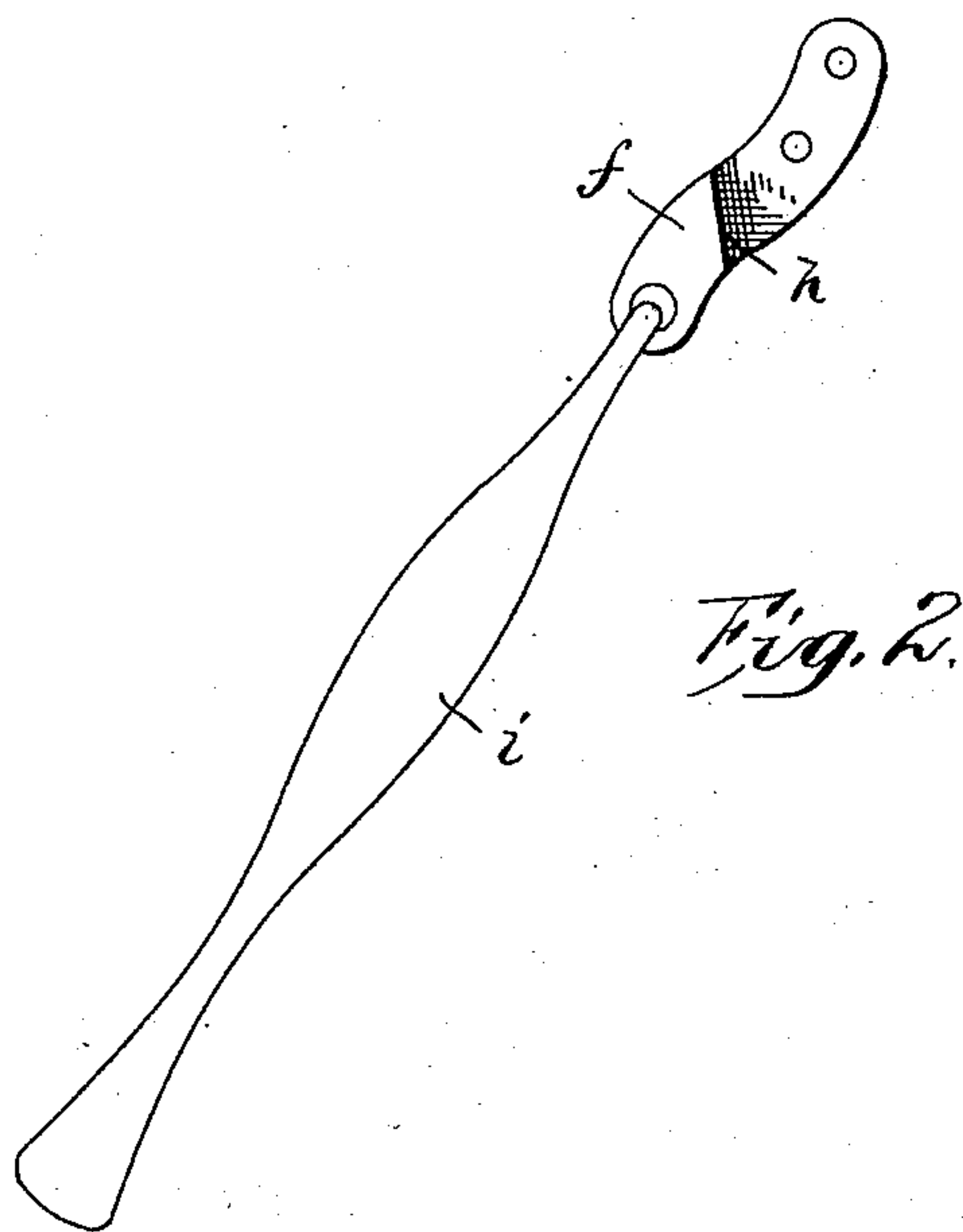
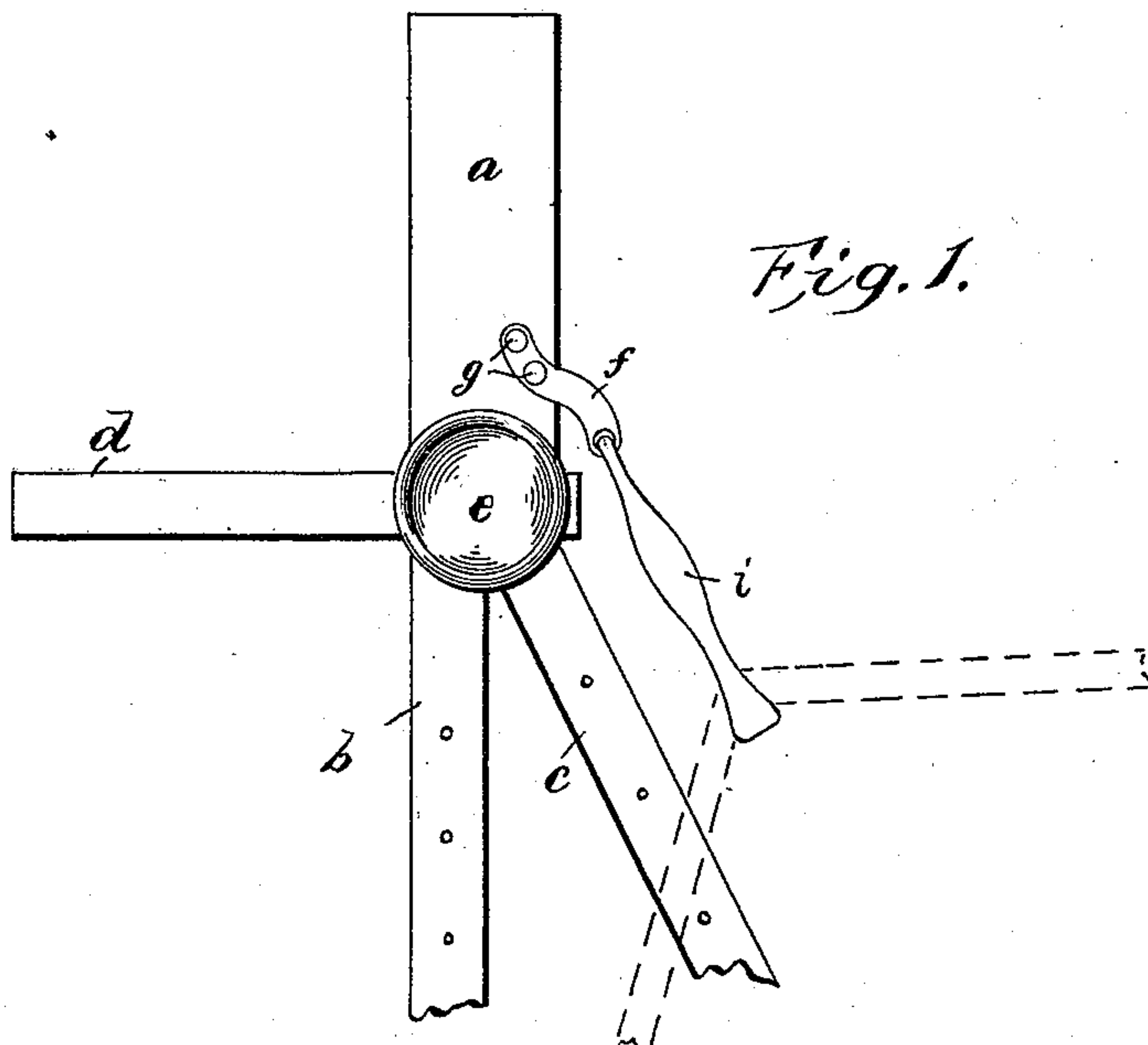


(No Model.)

J. M. HARTER & S. E. HARSH.
GAG SWIVEL.

No. 497,660.

Patented May 16, 1893.



WITNESSES:

O. C. Duffy
C. M. Werlé

INVENTORS:

J. M. Harter
S. E. Harsh
BY *O. C. Duffy*
ATTORNEY.

UNITED STATES PATENT OFFICE.

JOHN M. HARTER AND SAMUEL E. HARSH, OF WABASH, INDIANA.

GAG-SWIVEL.

SPECIFICATION forming part of Letters Patent No. 497,660, dated May 16, 1893.

Application filed December 16, 1892. Serial No. 455,374. (No model.)

To all whom it may concern:

Be it known that we, JOHN M. HARTER and SAMUEL E. HARSH, of the city of Wabash, in the county of Wabash and State of Indiana, have invented certain new and useful Improvements in Gag-Swivels; and we do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification.

This invention relates to certain improve-
15 ments in harness and more particularly to an improved gag swivel.

The object of the invention is to provide an improved gag swivel for harness exceedingly simple, cheap, and durable in construction
20 and very ornamental as well as useful, and which will not injure or destroy any part of the bridle.

The invention consists in certain novel features of construction and in combinations of
25 parts more fully described hereinafter and particularly pointed out in the claim.

Referring to the accompanying drawings:—
Figure 1 is a detail elevation of part of a bridle showing our invention attached thereto. Fig.
30 2 is a detail view of the gag swivel.

In the drawings the reference letter *a*, indicates the crown piece of the bridle, and *b*, and *c* respectively indicate the forks or billets of the crown piece.

35 *d*, indicates the front or brow band having the loop embracing the crown piece at the fork or at or about the point of bifurcation of the crown piece.

40 *e*, is the rosette or ornament on the loop of the brow band.

f, indicates the securing or supporting plate of the gag swivel perforated to receive the securing means. This plate is secured to one side of the crown piece above the fork and
45 rosette by any suitable means, as rivets or pins *g*. The plate extends laterally from the rear edge of the crown piece, and is provided on its under side with the shoulder *h*, fitting the edge of the crown piece and thereby
50 holding the plate in position and securing an additional bearing surface and removing strain from a portion of the leather through which the securing rivets pass. The outer laterally extending end of this plate is per-
55 forated or provided with an eye from which

the metal loop *i*, to receive the gag loosely hangs. This loop can be suspended by or composed of any desired number of metal links or loops. The supporting plates *f* are made in pairs, rights and lefts to attach to
60 opposite sides of the bridle.

The article is very inexpensive and yet exceedingly strong and durable and can be easily attached to any bridle. The device being composed of metal can be highly pol-
65 ished or plated and will greatly ornament the harness.

Great advantages are attained by this peculiar gag swivel and by attaching the same to the crown piece at a point above the fork
70 thereof, thereby preventing injury to the bridle because of the great strain on the gag swivel. Heretofore crown pieces were often destroyed by the gag swivels or loops attached below the forks of the crown piece tearing off
75 the billets to which they were attached. This is impossible in our construction, as no possible strain on the gag swivels can tear off the supporting plates from the strong heavy part of the crown piece to which they are se-
80 cured. Furthermore the supporting plates secured above the forks of the crown piece prevent the looped ends of the front or brow bands slipping up out of place when the ornaments or rosettes are not employed. Also
85 our gag swivels are held so that they are out of the way in attaching or detaching the throat latch of bridles.

Having thus fully described our invention, what we claim as new, and desire to secure by
90 Letters Patent of the United States, is—

The herein described gag swivel composed of a supporting plate adapted for securing to the crown piece of the bridle, and having the shoulder on its under side to engage the edge
95 of the crown piece, and hold said plate against turning or playing on the crown piece, the end of said plate projecting rearwardly from the edge of the crown piece, and the metal loop loosely suspended from the outer portion
100 of the plate, substantially as and for the purposes set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JOHN M. HARTER.
SAMUEL E. HARSH.

Witnesses:

BERTHA DICKEN,
JOHN H. DICKEN.