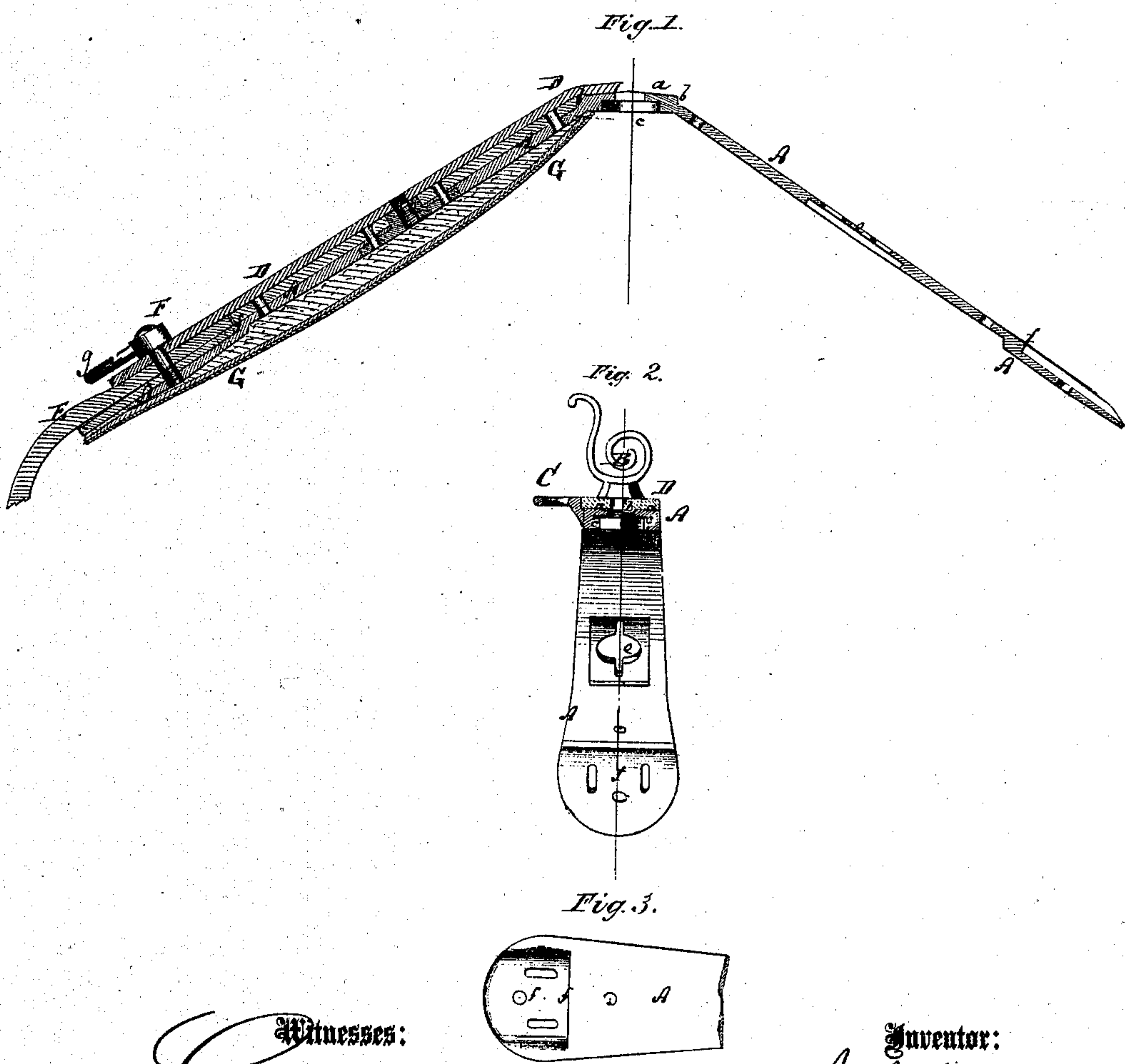


C. Gahr,

Harness Saddle.

No. 103321.

Patented May 24. 1870.



Witnesses:

*Augustus Dietrich*  
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# UNITED STATES PATENT OFFICE.

CONRAD GAHR, OF NEWARK, NEW JERSEY.

## IMPROVED PAD-PLATE FOR HARNESS.

Specification forming part of Letters Patent No. **103,321**, dated May 24, 1870.

*To all whom it may concern:*

Be it known that I, CONRAD GAHR, of Newark, in the county of Essex and State of New Jersey, have invented a new and Improved Pad-Plate for Harness; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification.

Figure 1 represents a longitudinal section of my improved pad-plate for harness. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a detail plan view of one end of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to certain improvements in the construction of metal plates which are inserted as stiffenings in harness-saddles, and as supports for the turret-hooks and rings, and for the other appendages of said saddles.

The invention consists in several details of construction, whereby the necessity of using the ordinary excessive amount of padding is dispensed with.

A in the drawing represents the metallic pad-plate. It is made of suitable length, width, and thickness. In the middle it has a raised platform, *a*, which forms at its ends shoulders *b b*, and which increases the thickness of the said middle to such an extent that it may receive a recess or depression, *c*, as shown. In this recess can be concealed the nut *d*, that secures the turret-hook B. The nut *d*, being thus concealed within and elevated into the pad-plate, does no further require the extra thickness of padding heretofore applied under it to keep it from chafing the horse's back.

The loop C for securing the tail-strap is cast into the pad-plate to project slightly upward from the same, as shown in Fig. 2. It will

thereby be in line with the leather covering D of the saddle without requiring the extra thickness of its shank to be interposed between such leather covering and the plate A.

By the above-mentioned improvements the thickness of the saddle in the middle is considerably reduced, and also the consequent expense of making the same.

The turret-rings are secured in the ordinary or suitable manner into sockets *e* provided for their reception in the pad-plate.

For receiving the end of the breast-strap E the ends of the plate A are slightly depressed, so that such strap will, with its end, strike against the shoulders *f*, which are formed on the plate by such depressions. The breast-strap is fastened by means of a screw, F, which screws directly into the plate A.

For single harness a loop, *g*, is fastened to the screw F, so that the thill-strap may be fastened thereto. For double harness these loops are omitted.

The padding G has, on my improved saddle, only the object to soften the lower part of the same. It has not to cover and conceal any projecting screws, nuts, or other devices, and can, therefore, be made less thick than was heretofore necessary.

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

As an improved article of manufacture, the metal pad-plate A, having raised portion *a*, shoulders *b b*, depression *c*, tail-strap loop C, sockets *e*, and shoulders *f*, all relatively arranged as and for the several purposes described.

CONRAD GAHR.

Witnesses:

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