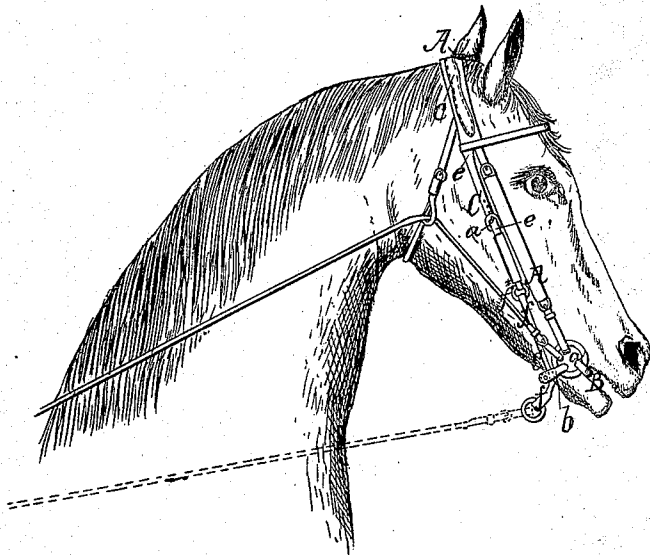


*F. A. Hannaford,*

*Bridle,*

*N<sup>o</sup> 70,089.*

*Patented Oct. 22, 1867.*



*Witnesses;*  
*McComb,*  
*W. Reed*

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# United States Patent Office.

F. A. HANNAFORD, OF NEW YORK, N. Y.

Letters Patent No. 70,089, dated October 22, 1867.

## IMPROVEMENT IN SAFETY-BRIDLES.

The Schedule referred to in these Letters Patent and making part of the same.

### TO ALL WHOM IT MAY CONCERN:

Be it known that I, F. A. HANNAFORD, of the city, county, and State of New York, have invented certain new and useful Improvements in Safety-Bridles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a portion of this specification, which is a side view, representing a bridle constructed according to my invention, and showing the same as applied for use.

The object of this invention is to provide a means whereby a vicious horse may be more effectually controlled in driving than is found practicable with the devices hitherto adopted to secure the said result.

The invention consists in two supplemental straps, to which the reins are attached, and which are so connected with the bridle or headstall, and with the bits thereof, that a moderate pull or draught upon the reins will very forcibly operate the bits, thus effectually checking the horse.

The invention further consists in providing the aforesaid supplemental straps with adjustable stops, whereby the peculiar action of such straps may be limited in such manner that a uniform strain or tension may be maintained upon the bit, as required in "speeding" a horse upon the road.

To enable others to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawing.

A indicates the headstall or bridle proper, which may be of any ordinary or suitable construction. B shows the bit of the same, and *a* one of the rings, whereby the ends of the said bit are attached to the bridle. Placed upon each of the rings *a* is a metallic loop or link, *b*, the outer end of which may be furnished with a small grooved friction-roller. Attached to the pole or top strap *c* of the bridle, one at each side of the said bridle, are two supplemental straps C, which extend downward, and are passed through the loops *b* of the rings *a* of the bit B, and to the lower extremities of which are buckled or otherwise fastened the reins shown in red outline in the figure.

By drawing or pulling upon the reins, the supplemental straps C will be drawn down and backward through the loops aforesaid, and, as a consequence, will force the bit upward or back in the mouth of the horse with a much greater degree of force than would be possible if the reins were attached directly to the rings *a* of the bit, and of course enabling the horse to be controlled with a correspondingly increased degree of efficiency.

In those cases where it is desired to carry this increased action of the bit upon the mouth only to a certain extent, as, for instance, in speeding a horse upon the road, each of the supplemental straps C is made in two parts, marked respectively *e* and *f*, and buckled together, as shown at *a'*, the lower part *f* being furnished, near its end, with a ring, *f\**, of such size that it cannot pass or be drawn through the adjacent loop *b* of the bit, and which serves as a stop to prevent the strain or draught of the reins from drawing the straps C through the said loops beyond a certain limit, and this limit being reached by pulling upon the reins, as hereinbefore set forth. The rings *a* striking the loops *b*, limit the further movement of the supplemental straps C through the loops aforesaid, and cause the reins to act directly upon the bit, somewhat in the same manner as when attached thereto in the usual way, thus enabling a continuous and uniform pressure of the bit to be exerted upon the horse's mouth, by adjusting, through the agency of the buckle *a'*, the lower parts *f* of the strap C higher or lower, as the case may require. The rings or stops *f\** may be so placed as to limit the movements of the supplemental straps, and consequently the pressure exerted by the bit upon the mouth of the horse, to any desired degree.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The supplemental straps C, arranged upon the bridle A, and in relation with the bit B thereof, substantially as and for the purpose specified.
2. The stops *f\**, made adjustable upon the supplemental straps C, substantially as set forth, whereby the force exerted upon the bit may be limited and rendered uniform, as described.

Witnesses:

J. W. COOMBS,  
G. W. REED.

F. A. HANNAFORD.