

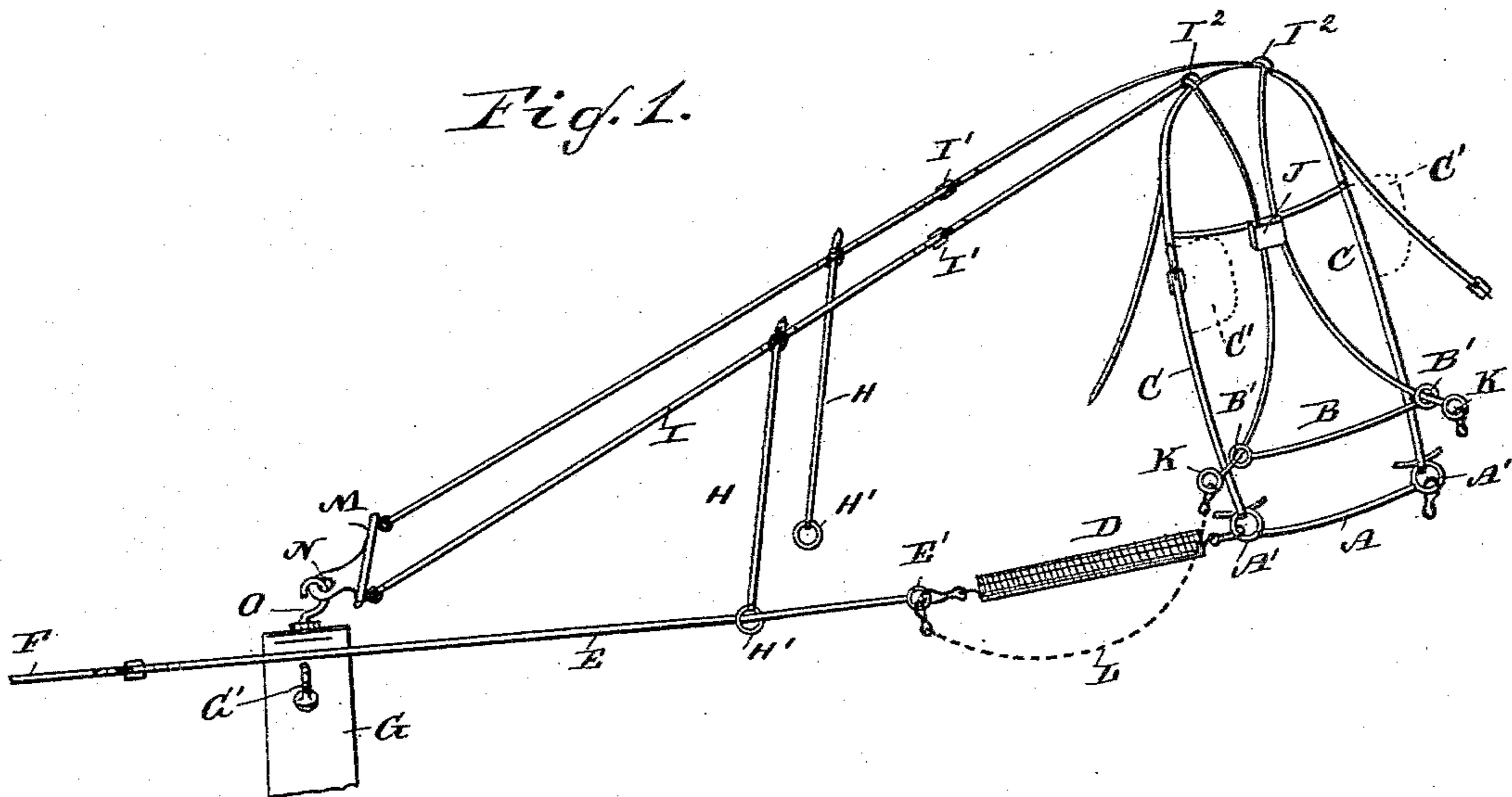
(No Model.)

R. RICHARDSON.  
BRIDLE.

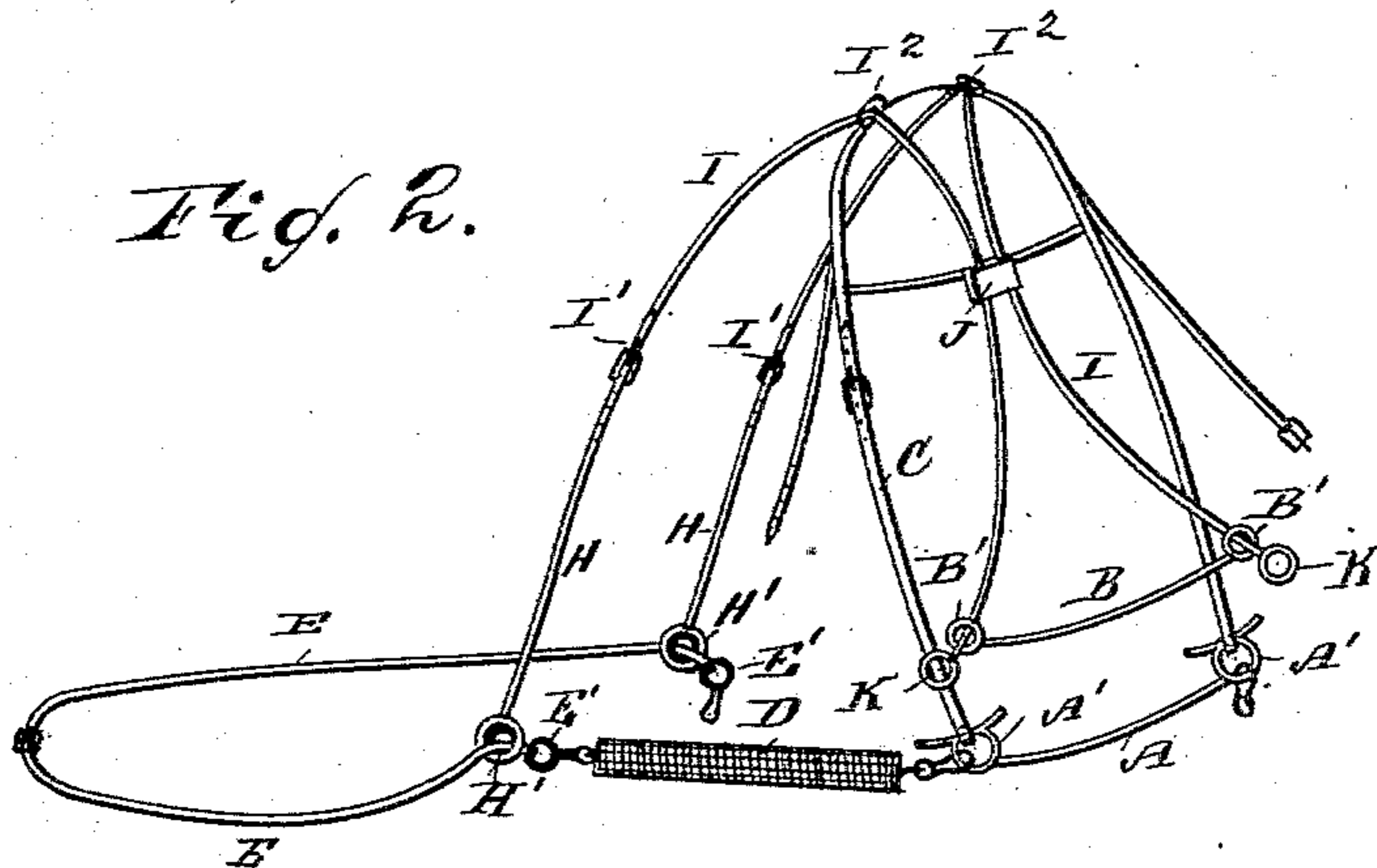
Patented Apr. 6, 1886.

No. 339,474.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

ROBERT RICHARDSON, OF DETROIT, MICHIGAN.

## BRIDLE.

SPECIFICATION forming part of Letters Patent No. 339,474, dated April 6, 1886.

Application filed January 20, 1886. Serial No. 189,226. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT RICHARDSON, of Detroit, in the county of Wayne and State of Michigan, have invented a new and Improved  
5 Bridle, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved bridle which can be so adjusted that the most vicious horse can be  
10 checked and controlled immediately.

The invention consists in the construction and combination of parts and details, as will be fully described and set forth hereinafter, and then pointed out in the claims.

15 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my improved bridle for driving from a vehicle, parts being left out. Fig. 2 is a perspective view of the same adapted for use in riding horse-  
20 back, parts being left out.

The bridle is provided with the two bits A and B, having the rings A' and B', respectively, at their ends, and of which the bit B is lighter than the bit A, for a purpose to be set forth. The bit A is suspended from the ends of the head-gear C, which is also provided  
25 with the detachable blinders C'. (Indicated by dotted lines.)

Spiral springs D are connected by snap-hooks or similar devices with the rings A' of the bit A, and at their other ends with the  
30 rings E' on the ends of the straps or reins E, connected by buckles with the regular reins F, which reins can be passed through the terrets G' on the saddle G, if desired. The straps E are passed through the rings H' on the lower  
35 ends of straps H, held by buckles on the straps I, said rings H' being too small to allow the rings E' on the reins E to pass through them. The straps I are provided with buckles I' for shortening or lengthening them, and are passed  
40 through loops I<sup>2</sup> on the top of the head-gear, and through apertures in the block J, one of said straps I passing loosely through said block and the other being secured to and holding it in place on the forehead of the horse.  
45 The lower ends of said straps I are then passed

through the rings B' of the upper bit, B, and are provided on their ends with the rings K, larger than the rings B', so as not to be pulled through said rings B'. The other ends of the straps I are secured to a cross-piece, M, hav-  
55 ing an eye, N, through which a hook, O, on the saddle can be passed.

When the bridle is to be used for riding horseback, the blinders C' are removed, the lower ends of the straps I, with the cross-piece  
60 M, dispensed with, and the straps H buckled to the straps I in a higher position, as shown. The reins F are removed and the ends of the straps or reins E buckled together.

In use, when the reins are pulled, tension is  
65 exerted upon the lower bit, A, through the springs D in the ordinary manner. If this tension is not sufficient to check the horse, or if the horse has taken the bit A between his teeth, the pull is increased until, the springs  
70 being extended, the rings E' come in contact with the rings H', and, not being able to pass through said rings H', tension is exerted upon the straps H, and thence, through the straps I, upon the upper bit, B, which, being smaller  
75 than the bit A, is pulled up in the horse's mouth with a force sufficient to check even the most restive or vicious animal.

In some cases when driving the straps H may be dispensed with and straps L connected  
80 with the rings E' on the reins E and with the rings K on the ends of the straps I. These straps L are slack when no great tension is exerted upon the reins, and act similarly to the straps H when the springs D are extended  
85 to draw upon the forward ends of the straps I, and thus force the upper and smaller bit, B, up in the horse's mouth.

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

1. In a bridle, the combination, with the bits A and B, of the straps I, passed through the rings of the bit B and connected by straps with the reins, and of the springs D, connected with  
95 straps connected with the reins and with the rings of the lower bit, A, substantially as herein shown and described.

2. In a bridle, the combination, with the head-gear C, of the straps I, passed through loops  
100

on the same, the bit B, having rings through which the front ends of the straps I are passed, and straps connecting the front ends of the straps I with the reins, substantially as herein shown and described.

5 3. In a bridle, the combination, with the bits A and B, of the straps I, connected with the rings B' of the bit B, and with the straps H, having the rings H' at their lower ends, and of  
10 the springs D, connected with the rings of the bit A, and with rings E' on the ends of the reins E, passed through the rings H', substantially as herein shown and described.

4. In a bridle, the combination, with the head-  
15 gear C, of the straps I, passed through loops on the same and through the holding-piece J, and having the adjusting-buckles I', the bit B, having rings B', connected with the straps I, the straps H, buckled to the straps I, and hav-  
20 ing the rings H' on their lower ends, the reins E, passed through said rings H', and having rings E' on their ends, and the bit A, connect-  
25 ed by springs D with the springs E' of the reins E, substantially as herein shown and de-  
scribed.

5. In a bridle, the combination, with the head-  
gear C and the bits A B, of the block J, the  
straps I, passed through loops on the head-  
gear, through the block J, and through the  
rings B' on the ends of the bit B, the rings K  
30 on the front ends of the straps I, the straps L,  
connected with said rings and with straps con-  
nected with the reins, and the springs D, con-  
nected with the bit A, and with straps con-  
nected with the reins, substantially as herein  
35 shown and described.

6. The combination, with the head-gear, of  
the bits A B, having rings at their ends, the  
straps I, passed through loops on the head-  
gear and through rings on the bit B, rings on  
40 the front ends of the straps I, and springs con-  
nected with the bit A, substantially as herein  
shown and described.

ROBERT RICHARDSON.

Witnesses:

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