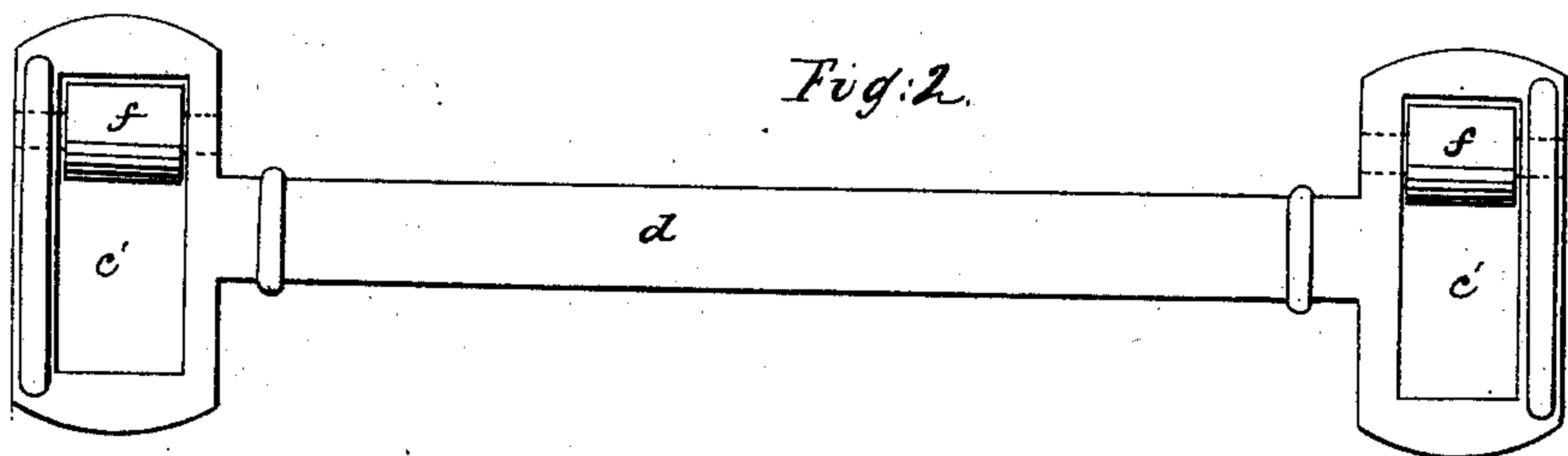
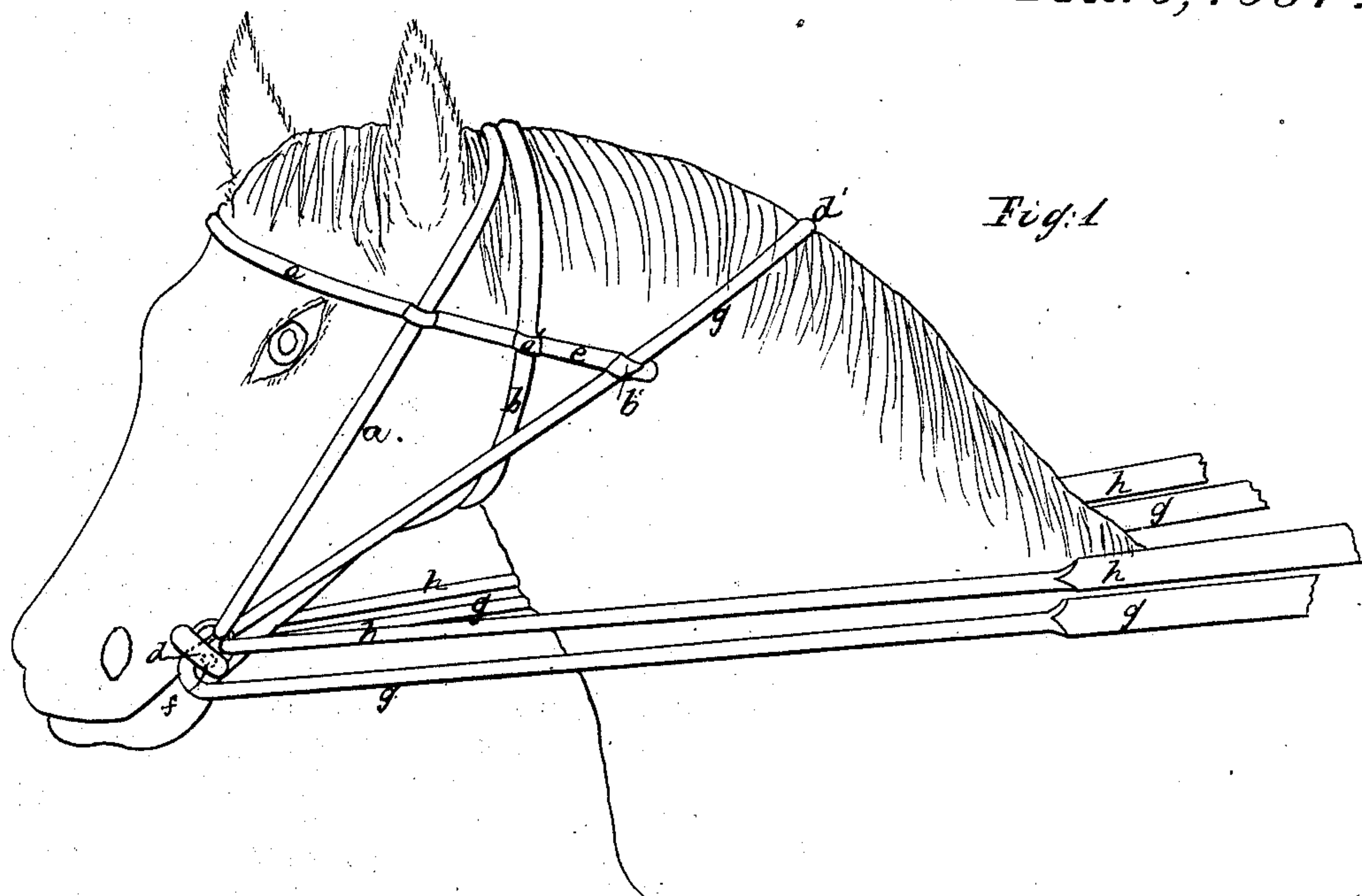


W.R. Beans,
Bridle,
No 69,893, *Patented Oct. 15, 1867.*



Witnesses,

J.W. Coombs
G.W. Reed

Inventor

W.R. Beans
Per his attorneys
Brown & Coombs

United States Patent Office.

WILLIAM R. BEANS, OF BROWNSBURG, PENNSYLVANIA.

Letters Patent No. 69,893, dated October 15, 1867.

IMPROVEMENT IN 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, WILLIAM R. BEANS, of Brownsburg, in the county of Bucks, and State of Pennsylvania, have invented a new and useful Improvement in Safety-Lines for Harness; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a portion of this specification, in which—

Figure 1 represents the invention as placed upon the horse.

Figure 2 is a separate enlarged view of the bit used in connection therewith.

Similar letters of reference indicate corresponding parts in both figures.

This invention consists in a novel means of connecting a pair of safety-lines with the headstall and bit of a harness, whereby the safety-lines may be made to press upon the most sensitive portion of the neck of the horse simultaneously with a forcible upward movement of the bit in the mouth of the said horse, so that by these means a spirited or fractious animal may be safely and speedily subdued by the exertion of a very moderate degree of strength.

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

The cheek-pieces, throat-latch, front band, and guiding-lines of the headstall or bridle, are shown respectively at *a*, *b*, *c*, and *h*, the bit *d* being attached at each end of the lower extremity of the cheek-pieces *a*, and the general construction of the headstall itself being similar to that of those in common use. Any suitable kind of headstall may be used, but whatever the variety that may be employed, the headstall is furnished at each side with a rearwardly extending extension-strap, *e*. These extension-straps *e*, for the sake of convenience of manufacture, may be formed by continuations of the ends of the front band *c*, and may be formed with loops *a'* near their innermost portions, through which the throat-latch *b* may be passed, and thus prevented from slipping too far back upon the horse's head. Formed in the outer extremity of each of these extension-straps *e* is a similar loop, *b'*. The bit is constructed with a transverse slot or guide, *c'*, at each end, in which is pivoted a small friction-roller, *f*. The safety-lines are shown at *g*, and are formed of a single continuous rein of leather, webbing, or other suitable material, which is passed through the loops *b'* of the extension-straps *e*, and thence through the slots *c'*, and over the friction-rollers *f*, from which the two end portions of the rein which constitute the pair of lines *g* are carried back to the hands of the driver, the central portion of the rein or pair of lines *g*, when the headstall is placed upon the head of the horse, as shown in fig. 1, resting upon the neck of the said horse at that part thereof most sensitive to pressure, as shown at *d'*, in such manner that by pulling back upon the lines *g*, the said central portion *d'* thereof will press downwards upon the aforesaid part of the horse's neck, at the same time that the action of the said lines forces the bit *d* upwards in the mouth of the horse, so that by this simultaneous action upon the mouth and neck of the horse he may be very easily held and controlled by the driver, the retention of the central portion *d'* of the lines upon the proper part of the neck of the animal, and the consequent efficient operation of the apparatus, being secured by means of the extension-straps *e*, through the loops *b'* of which the said lines *g* are passed, as hereinbefore fully set forth. The guiding-lines *h* are used simply for guiding the horse as in ordinary driving.

I do not claim passing the safety-lines over the horse's neck, as that has been done before by passing them through loops on the throat-latch of the headstall so as to bring them four or five inches back of the ears, but what I claim as new, and desire to secure by Letters Patent, is—

The headstall constructed with extensions rearwardly from the forehead-strap having loops *b'* at their rear ends for the retention of the safety-reins in the desired position on the horse's neck, substantially as shown and described.

W. R. BEANS.

Witnesses:

ALFRED BLAKER,

CHARLES H. ROBERTS.