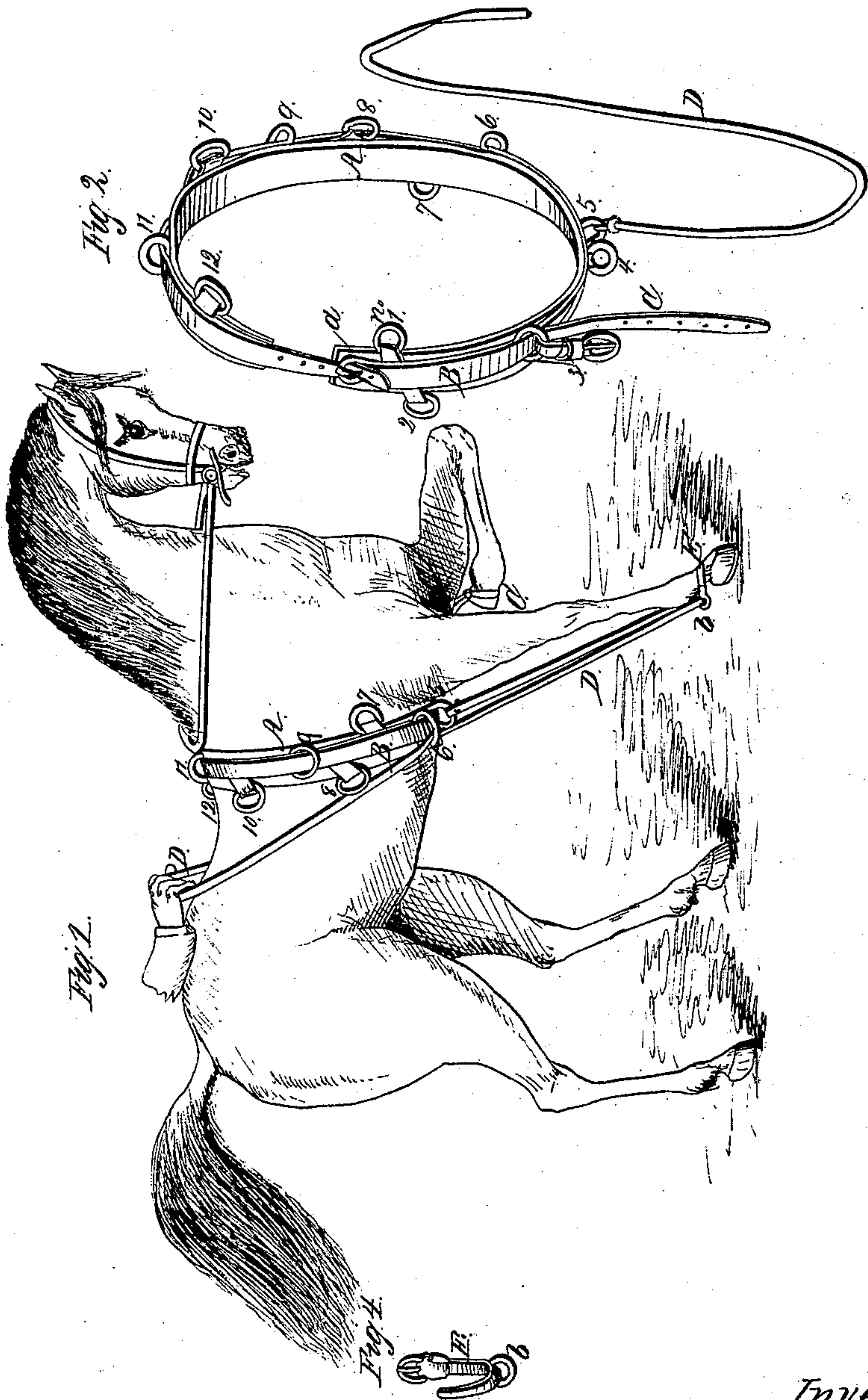


S. V. R. York.

Surcingle.

No 77.234.

Patented Apr. 28. 1868.



Witnesses;  
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# United States Patent Office.

S. V. R. YORK, OF ANTWERP, NEW YORK.

Letters Patent No. 77,234, dated April 28, 1868.

## IMPROVED SURCINGLE.

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, S. V. R. YORK, of Antwerp, in the county of Jefferson, and State of New York, have invented a new and improved Subjugating and Surgical-Operating Surcingle; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a side view of my surcingle, as applied to a horse.

Figure 2 is a perspective view of the surcingle, with the short strap and long line attached.

Figure 3 is a long pastern-strap.

Figure 4 is a short pastern-strap.

Like letters of reference designate corresponding parts in all the figures.

My invention consists of an apparatus, composed essentially of a strong surcingle, provided with a series of rings, applied and arranged as hereinafter described, to be used upon the body of the horse or other animal, in combination with other straps for securing the feet, and of a rein connected with a ring of the surcingle, whereby the operator may obtain control of the limbs and muscles of an unbroken or vicious animal, for the purpose of subduing him, or to perform any surgical or other operation which may be required.

The surcingle consists of a strap, A, six and one-half feet in length, and two and one-half inches wide, the main strap being double, and with an extra layer, B, on the outside, making the strap, when finished, to consist of three thicknesses of harness-leather. The strap is provided with a heavy iron buckle, *a*, and applied by passing it around the body of the horse, in the manner of an ordinary surcingle, and buckling it close on the near side. The strap is provided with a series of one dozen of one-and-a-half-inch iron rings, attached as follows:

The first (No. 1) being attached to the surcingle, five inches from the buckle, on the back edge, by the use of a short strap.

The second ring one inch from the first, on the front edge, by the use of a short strap.

The third ring is attached to the centre of the surcingle, under the outer layer, seven inches from the second one. In the third ring, a strap, C, passes, which is two feet in length, one inch and a quarter wide, with a buckle and loop. Said strap is for the purpose of making the left forward foot fast to the surcingle.

The fourth ring is made fast to the back edge of the surcingle, seven inches from the third ring, by the use of a short strap.

The fifth ring is made fast to the centre of the surcingle, under the outer layer, seven inches from the fourth.

The sixth ring is made fast to the centre of the surcingle, the same as the fifth, four inches and a half from the fifth.

The fifth and sixth rings are used as pulley-rings, by the use of another strap or line, D, twelve feet long and one inch wide, one end of said strap or line being attached to the fifth ring of the surcingle with a billet and buckle. Around the pastern of the right foot there is a strap, E, eight inches in length and one inch and a quarter in width, with a buckle and one-inch ring, *b*, attached. The other end of the long line D, that is attached to the fifth ring, is passed through the ring *b*, which is made fast to the pastern of the right foot, and back through the sixth ring of the surcingle, passing over the horse's back to the near side, into the operator's hand.

The seventh ring is made fast to the surcingle, two inches from the sixth ring, by the use of a short strap on the front edge.

The eighth is made fast to the surcingle on the back edge, by the use of a short strap, nine inches from the seventh ring.

The ninth ring is attached to the centre of the surcingle, under the outer layer, nine inches from the eighth ring.

The tenth ring is attached to the back edge of the surcingle, by the use of a short strap, three inches from the ninth ring.

The eleventh ring is attached to the centre of the surcingle, under the outer layer, five inches from the tenth ring.



The twelfth (and last) ring is attached to the surcingle by the use of a short strap on the back edge, two inches from the eleventh ring.

The practical use of the rings is as follows: The first, fourth, eighth, tenth, and twelfth rings, on the back edge, are used for making the hind feet of the horse fast to the surcingle, when performing surgical operations, such as castrating, firing, operating with a knife, and the like.

The second and seventh rings, which are on the front edge, are used for making the horse's head fast when he is lying upon his side.

The ninth and eleventh rings are for passing the long line D through, and thence through the ring of the bit *c*, and passing through the second or seventh rings.

When the surcingle is properly placed on the animal, and buckled on the near side, the tenth and eleventh rings are equidistant on each side of his back. That leaves the third ring, with the two-foot strap attached, hanging just back of the arm of the left forward leg. The twelve-foot rein or line, D, which is attached to the fifth ring, (and afterwards passes through the sixth ring,) is just even with the arm of the right forward leg, and is passed through the ring *b* of the strap E, which is buckled to the pastern of the right forward foot.

The operator now steps to the near side of the horse, lifts the left forward foot, and makes it fast to the strap C, attached to the third ring. He now, with the right hand, takes hold of the long line D, which is brought over the horse's back, causes him to move, and when the right forward foot is lifted, by drawing upon the line he elevates the foot to the fifth and sixth rings of the surcingle, where it is retained, the horse being dropped to his knees. Now, with the left hand, the operator takes hold of the rein of the bridle on the off side of the horse's neck, carries his head slightly from him, and lays the horse upon his left side.

The long line D, which makes the right foot fast to the fifth and sixth rings, as above described, is now passed through the ninth ring of the surcingle, thence through the ring of the bit *c*, and back through the seventh ring, drawing up the line very close, which brings his head back to his side, and makes it fast to the surcingle. A three-foot strap, F, two inches wide, with a buckle and loop at one end, is fastened round the pastern of the upper hind foot, as he lies upon his side, and is then brought forward to the seventh or tenth ring, as occasion may require, thereby drawing up the foot very close, and making it fast to the surcingle. The lower hind foot is brought forward, and made fast to the fourth ring, under the chest, in the same manner.

Should the operator be required to lay the horse upon his right side, the long line D would be passed through the eleventh ring, thence through the bit-ring, on the near side of the horse's head, carried back and passed through the second ring, which, drawing on the line, will make it fast on the near side, the same as on the off side, and the upper hind foot will be made fast, with same three-foot strap F, to the first or twelfth ring, putting the horse in the same position as when lying on his left side, the fourth ring being used for the lower hind foot.

By this means a vicious horse is satisfied that you can control every muscle of his body, and you also have him in a position by which the operator can perform surgical operations without the assistance of any one.

After many years' experience among horses of all dispositions, I find that my method, above described, is the most advantageous, simple, and perfect in its operation and results.

What I claim as my invention, is—

The combination of the series of rings, numbered 1 to 12, inclusive, with the surcingle A and B, long line or rein-D, pastern-straps C and F, and foot-strap E, arranged and applied in the manner and for the purposes shown and described.

In witness whereof, I have hereunto signed my name, in the presence of two subscribing witnesses.

S. V. R. YORK.

Witnesses:

J. R. DRAKE,  
GEO. W. MIATT.