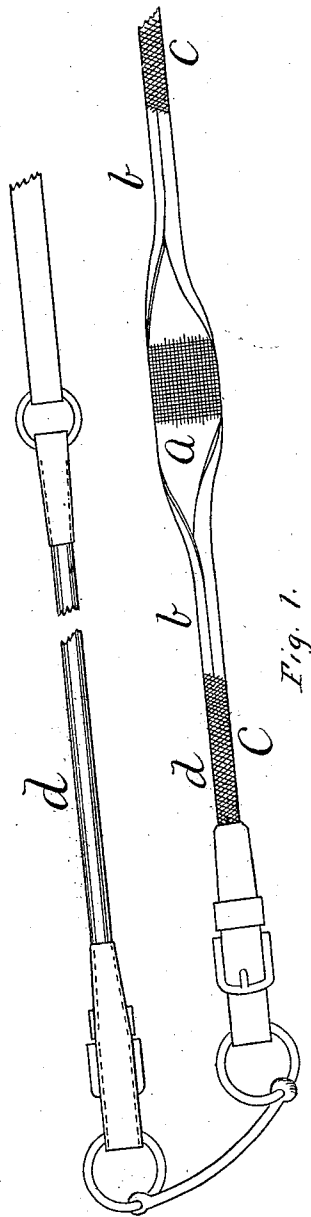
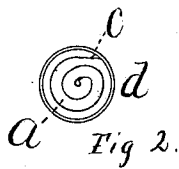


J. NEALEY, Jr. & T. P. KEMP.

Elastic Check-Reins.

No. 136,256.

Patented Feb. 25, 1873.



Witness
Eugene M. Hiney
W. E. Brown

Inventors
James Nealey, Jr.
Thos P. Kemp
Per atty Wm Franklin Covey

UNITED STATES PATENT OFFICE.

JAMES NEALEY, JR., AND THOMAS P. KEMP, OF BANGOR, MAINE.

IMPROVEMENT IN ELASTIC CHECK-REINS.

Specification forming part of Letters Patent No. **136,256**, dated February 25, 1873.

To all whom it may concern:

Be it known that we, JAMES NEALEY, Jr., and THOMAS P. KEMP, both of Bangor, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Elastic Check-Reins; and we do hereby declare that the following is a full, clear, and exact description thereof, that will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification, in which is shown, in—

Figure 1, a side view; Fig. 2, a section of our invention.

Our invention consists in an improved method of constructing the elastic portion of check-reins. As these are now made of rubber, elastic fabric, or metallic springs, they are liable to stretch out and lose their elastic properties after comparatively short use or exposure to the weather. Our improvement aims at so making this part of the rein as to give it greater durability, causing it to be nearly as lasting as the leather itself, and at the same time giving to the whole article a good finish.

We effect our purpose by making the elastic portion of the rein of flat elastic fabric, rolled up so as to form a solid cord, which is held in shape by surrounding it with webbing or braided threads plaited together in the manner common in braided whip-coverings. This webbing allows the cord to extend or contract without losing its shape, and may be coated with

water-proof coating to preserve it from the weather.

The construction of the cord peculiarly adapts it for attachment to the leathern part of the rein, allowing it to be spread or flattened out, and the rolled cord possesses every advantage of solidity which one composed entirely of rubber would have with the additional strength derived from the original covering plaited around the flat elastic fabric composing it, which serves to bind it together and strengthen it through its whole extent.

Reference to the drawing shows our invention, *a* showing the flat fabric, rolled at *b*, and covered with the webbing, as at *c*, forming the cord *d*.

We do not claim, broadly, an elastic check-rein, as we are aware these have been used before; nor do we claim a check-rein made of elastic fabric.

What we do claim as our invention, and desire to secure by Letters Patent, is—

In an elastic check-rein, the cord *d*, constructed, as herein described, from flat elastic fabric *a*, rolled as at *b*, and covered with braided webbing *c*, substantially as herein set forth and shown.

In testimony that we claim the foregoing we have hereunto set our hands this 1st day of February, 1873.

JAMES NEALEY, JR.

Witnesses: THOS. P. KEMP.

W. E. BROWN,

WM. FRANKLIN SEAVEY.