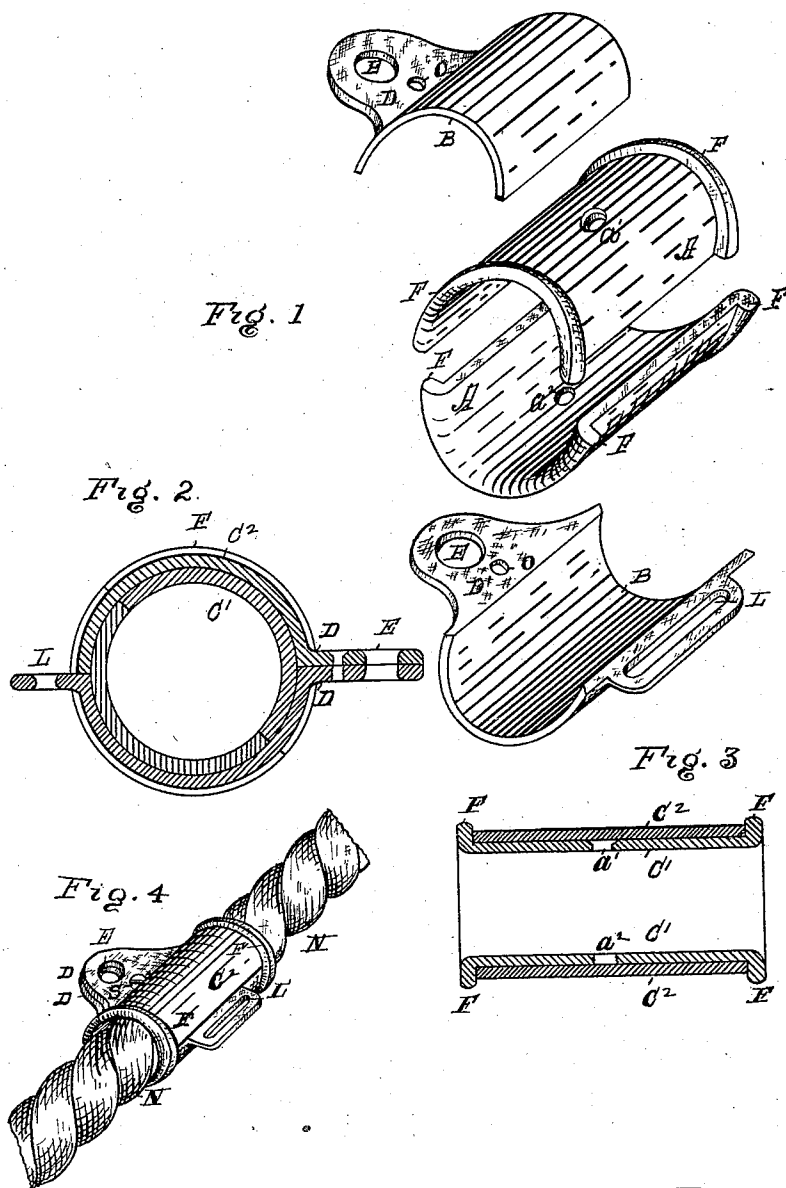


(No Model.)

C. R. MILLER.
ROPE TRACE GUIDE.

No. 290,455.

Patented Dec. 18, 1883.



Witnesses

Stanley M. Holden.

Charles S. Buntinall

Inventor

Charles R. Miller

by W. C. Hagan

his atty

UNITED STATES PATENT OFFICE.

CHARLES R. MILLER, OF LANSINGBURG, NEW YORK.

ROPE-TRACE GUIDE.

SPECIFICATION forming part of Letters Patent No. 290,455, dated December 18, 1883.

Application filed September 21, 1883. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. MILLER, of the village of Lansingburg, county of Rensselaer, and State of New York, have invented a new and useful Improvement in Rope-Trace Guides, of which the following is a specification.

My invention relates to a device designed as a guide or holder for the rope traces of animal-harness, to prevent them from being vibrated and shook about between their end connections.

Rope traces are largely used in connection with heavy harness, and more particularly with that kind of the latter used upon the animals which draw street-cars; and when the cars are being broke up or when running on a downgrade the traces are whipped about with a good deal of force, so as to chafe and wear out the girth-strap or belly-band, and to irritate the horses by their striking contact. To remedy this difficulty is the object of my invention.

Accompanying this specification, and forming a part of it, is a sheet of drawings containing four figures illustrating my invention, with the same designation of parts by letter-reference used in all of them, of which—

Figure 1 shows in perspective the separated parts of which my device is composed; Fig. 2, a cross vertical section of the same as connected; Fig. 3, a longitudinal vertical section with the parts attached, and Fig. 4 a perspective of the device applied to a trace.

The several parts of the device thus illustrated are designated by letter-reference and their function explained as follows:

The letters A A designate two half-cylinders made with outwardly-projecting end flanges, F F, and which half-cylinders, when joined on the line of their longitudinal division, produce the inner cylinder, C'; and the letters B B indicate two other half-cylinders, which, when united together, form the cylinder C², which is made to surround the cylinder C', when applied between the projecting rim-flanges on the ends of the latter. On each half of the cylinder C² there are made the coincident offset flanges D D, provided with openings to produce the eye E, when united by the screw S and openings O, and when thus united these flanges connect the two-part cylinders B B, with which to pro-

duce the said cylinder C². On one of the parts B there is formed an offset link-opening, L, for the attachment of the device to the harness, to suspend it therefrom, and which may be used in connection with the eye E for that purpose.

The inner cylinder, C', is intended to grasp the rope R and to move freely in the outer cylinder, C², for adjustment in rotation, and is adapted to connect with the rope N by means of a screw inserted at a', and passing through the rope to engage at a². The flanges F F on the end of the inner cylinder allow of its rotation within the outer cylinder and prevent its being disconnected therefrom.

As thus made, and with the trace-rope inserted therein, and with the device suspended from the harness, the vibration of the trace-rope is prevented and the difficulties produced by it obviated.

While I have shown the eye A as attached to one side of the device and the link L to the other side, the latter, being auxiliary to the other, may be omitted, if desired.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, in a rope-trace guide, of an outer cylinder made with an offset eye for attachment to the harness, an inner cylinder constructed to rotate within the outer cylinder and attach to the rope, and rim-flanges on the ends of the inner cylinder, made to subtend longitudinally and diametrically the ends of the outer cylinder, as shown and described.

2. In a rope-trace guide, the combination of the outer two-part cylinder, C², made with the offset flanges D and eye E', the inner two-part cylinder, C', made with the rim end flanges, F F, and the parts constructed to attach as and for the purposes set forth.

3. In a rope-trace guide, the combination of the outer two-part cylinder, C², made with the offset flanges D, eye E, and offset link-opening L, the inner two-part cylinder, C', made with the rim end flanges, F F, and the said parts constructed to attach as and for the purposes herein set forth.

CHARLES R. MILLER.

Witnesses:

CHARLES S. BRINTNALL,
WM. H. GALLUP.