

(No Model.)

J. B. RILEY & H. RADLEY.

TONGUE SUPPORT.

No. 355,339.

Patented Jan. 4, 1887.

Fig. 1.

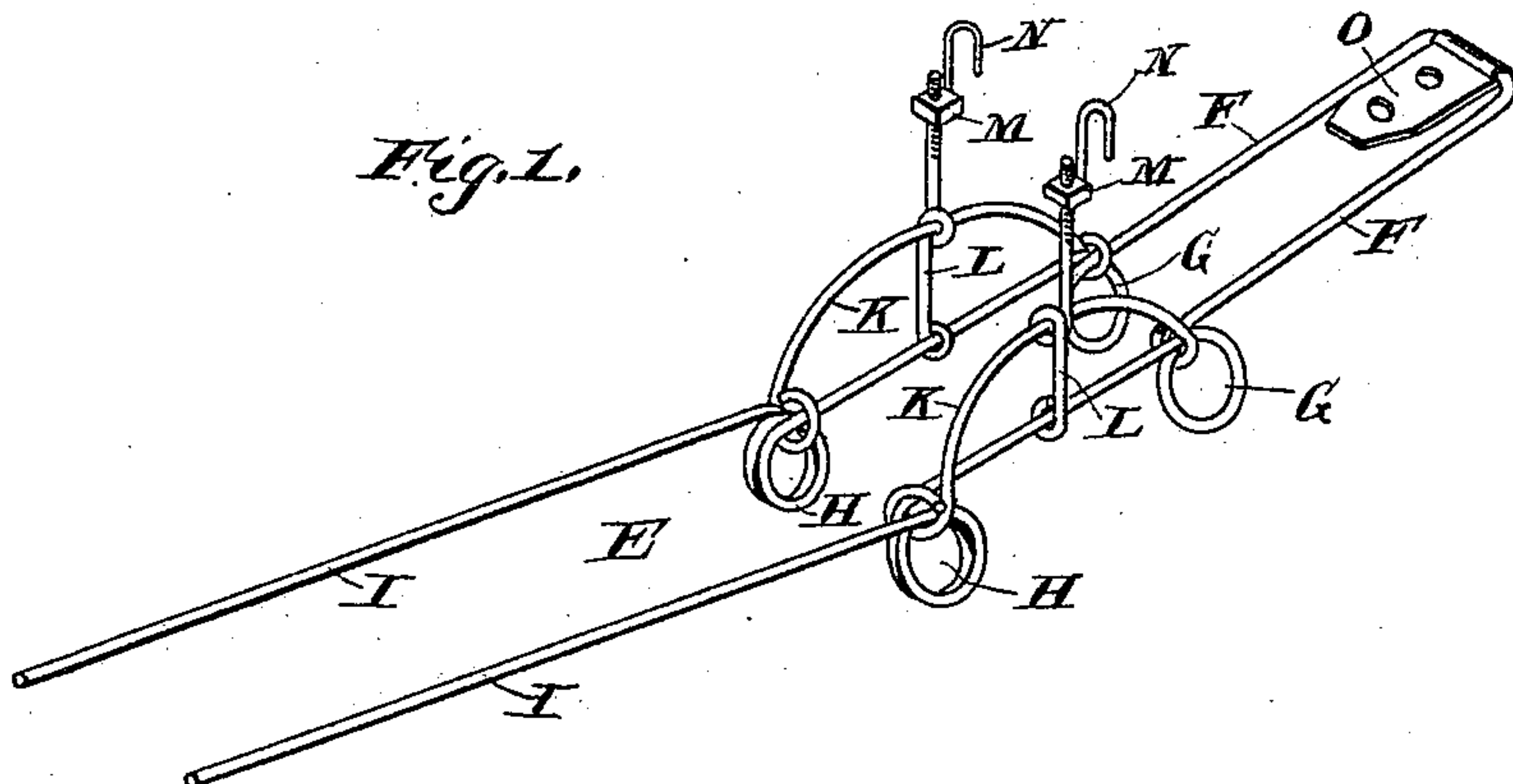
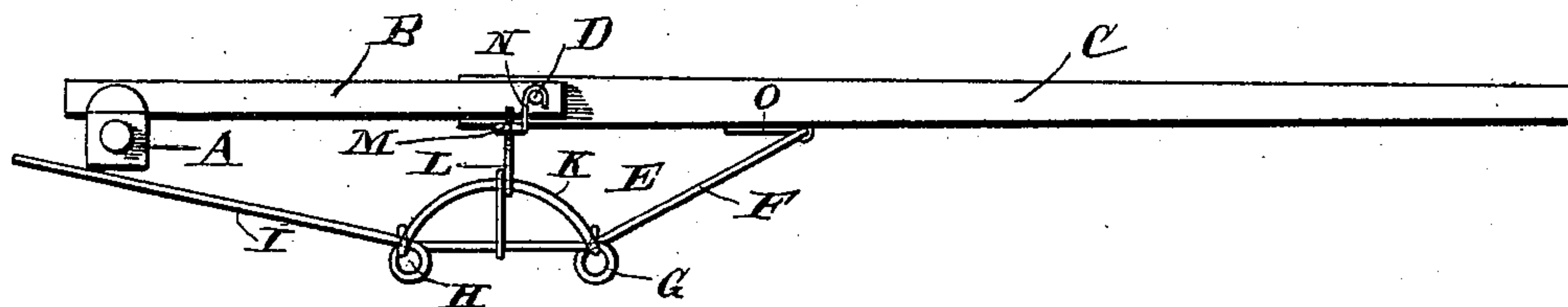


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH B. RILEY AND HENRY RADLEY, PITTSBURG, KANSAS.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 355,339, dated January 4, 1887.

Application filed September 24, 1886. Serial No. 214,453. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH B. RILEY and HENRY RADLEY, citizens of the United States, residing at Pittsburg, in the county of Crawford and State of Kansas, have invented a new and useful Improvement in Tongue-Supports, of which the following is a specification.

Our invention relates to an improvement in tongue-supports for vehicles; and it consists in the peculiar construction and combination of devices, that will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the drawings, Figure 1 is a perspective view of a wagon-tongue supporter embodying our improvements. Fig. 2 is an elevation of the same, showing the manner of attaching it to the vehicle.

A represents the front axle of a vehicle. B represents the hounds, and C represents the pole or tongue, which is pivoted between the hounds on a bolt-rod, D.

E represents the supporting-spring for the tongue, which is made from a single rod of metal. The rod is first bent in the center to form the arm F. Coils G are formed at the inner ends of the said arm, and at a suitable distance from the said coils are the double coils H, from which the ends of the rod extend rearwardly, forming the arms I.

K represents braces, which are made of spring-rods, and are attached to the coils G and H, and are curved and arranged on the upper sides of the supporting-spring between the said coils.

Suspending-rods L are attached to the supporting-spring E, and to the spring-braces K, and extend vertically. The upper ends of the said suspending-rods are screw-threaded, and are provided with nuts M, having hooks N, which are adapted to catch the pivotal bolt D.

The operation of our invention is as follows: The front end of the arm F is attached to the underside of the tongue, in advance of the pivotal bolt thereof, by a metallic strap, O. The suspending-rods are hooked to the bolt D, and

the arms I bear against the under side of the front axle. It will be readily understood that the device, when thus attached, serves to support the tongue and prevent it from bearing heavily on the necks of the horses. The function of the curved spring-braces K is to partly relieve the spring-support of the strain, and to equalize the pressure thereon, and the function of the nuts having the hooks on the upper ends of the supporting-rods is to permit the supporting-spring to be adjusted vertically at the center, so as to cause it to bear with the necessary force on the under side of the tongue to support the latter.

A wagon-tongue supporter thus constructed is extremely cheap and simple, is very strong and durable, and is thoroughly efficient and practical in operation.

Having thus described our invention, we claim—

1. The combination, with the tongue-supporting spring E, of the spring-braces K, attached thereto, for the purpose set forth, substantially as described.

2. The combination, with the tongue-supporting spring E, of the spring-braces K, attached thereto, and the suspending-rods, for the purpose set forth, substantially as described.

3. The combination, with the tongue-supporting spring E, having the coils G and H, of the spring-braces K, attached to and connecting the said coils, substantially as described.

4. The combination, with the tongue-supporting spring, of the spring-braces K, attached thereto, and the vertical suspending-rods attached to the supporting-spring and the spring-braces, and connecting the same together, substantially as described.

In testimony that we claim the foregoing as our own we have hereto affixed our signatures in presence of two witnesses.

JOSEPH B. RILEY.
HENRY RADLEY.

Witnesses:

C. B. SMELTER,
E. H. KEOCK.