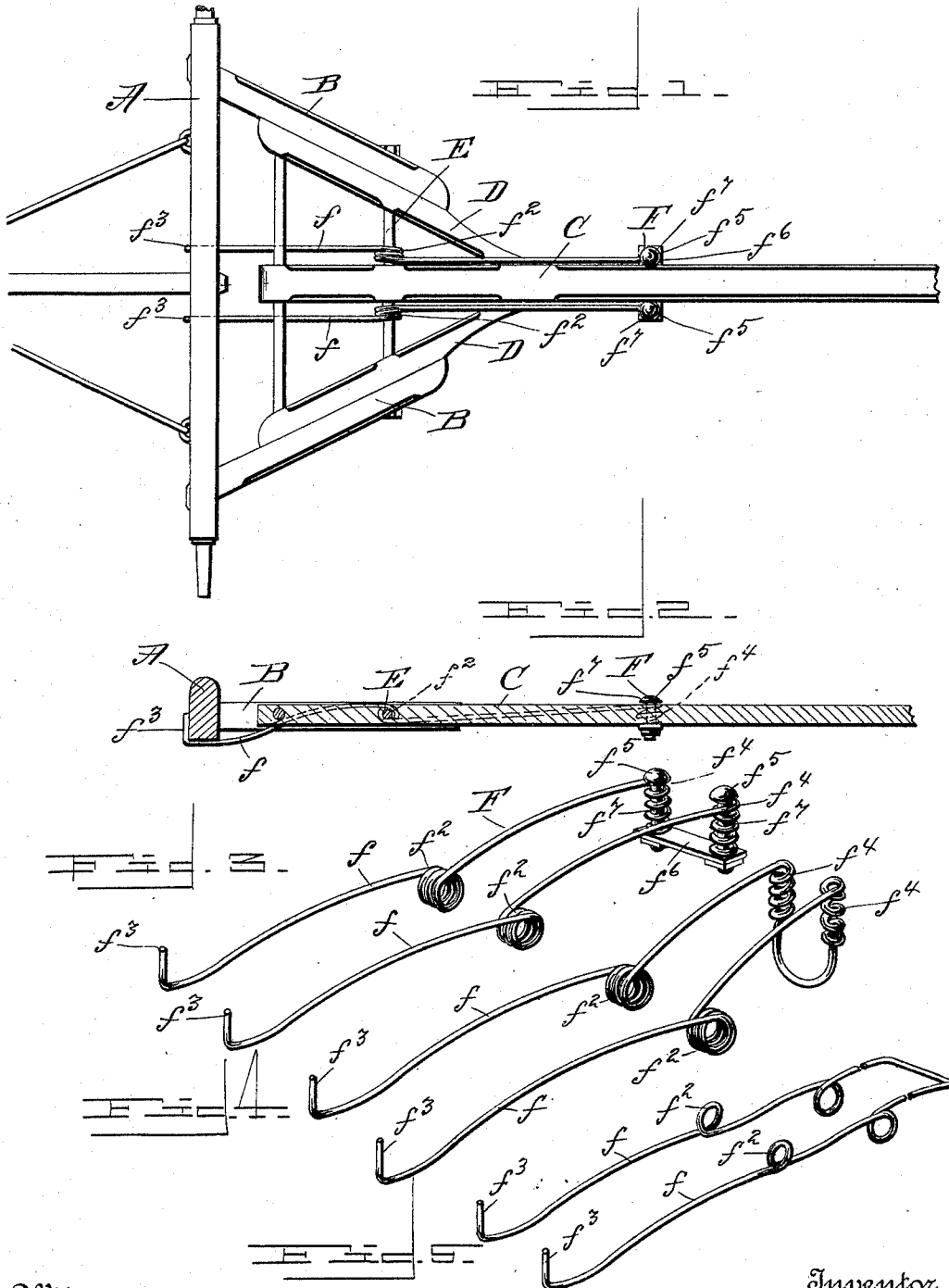


(No Model.)

G. H. MILLS.
TONGUE SUPPORT.

No. 518,744.

Patented Apr. 24, 1894.



Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE H. MILLS, OF LAUREL, MONTANA.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 518,744, dated April 24, 1894.

Application filed October 13, 1893. Serial No. 488,048. (No model.)

To all whom it may concern:

Be it known that I, GEORGE H. MILLS, a citizen of the United States of America, residing at Laurel, in the county of Yellowstone and State of Montana, have invented certain new and useful Improvements in Wagon-Tongue Supporters, of which the following is a specification.

This invention relates to certain new and useful improvements in that class of devices known as "tongue or pole supports."

The object of the invention is to provide a simple and inexpensive construction that shall possess advantages in point of durability and general efficiency. In attaining these and other objects various novel features, combinations and arrangements are employed which will be hereinafter fully set forth and specifically pointed out in the claim following the description.

Referring to the accompanying drawings which form part of this specification and wherein like letters indicate corresponding parts in the several views: Figure 1: is a plan view, showing the forward portion of the running gear of a vehicle with one form of tongue support constructed and arranged to embody my improvements, applied thereto. Fig. 2: is a longitudinal sectional view, taken on the line x, x , of Fig. 1. Fig. 3: is a detail perspective view of the device detached. Figs. 4 and 5: are similar views of modifications.

In the drawings: A, denotes the forward axle of a vehicle, B, the hounds, C, the tongue, D, the auxiliary hounds, E, the securing bolt on which the tongue is vertically movable and F, represents the tongue supporter. This last named device consists of duplicate spring arms, f, f , arranged one on each side and running parallel with the tongue. These arms are bent up about midway of their length to form coils — $f^2 f^2$ — with the inner extremities $f^3 f^3$, thereof passed under the axle and suitably secured, for example by being bent at right angles and engaging the under and rear sides of the axle. At the forward ends of these arms horizontal coils f^4, f^4 , are formed

and encircle the legs f^5, f^5 , of an approximately U-shaped clip in which the tongue normally rests. This clip is preferably constructed as shown in Figs. 1, 2 and 3—wherein a flat plate f^6 , is employed and provided with apertures through which bolts f^7, f^7 , are passed and loosely or rigidly secured. The terminal coils f^4 , of the spring arms encircle these bolts and abut against the heads thereof. If desired the plate f^6 may be dispensed with and a single length U-shaped rod with threaded extremities employed. In the latter case, nuts engaging the aforesaid threaded extremities would serve to confine the spring coils in lieu of the bolt heads.

Referring to Fig. 4: I have shown a device formed from a single length rod and embracing the essential features of improvement above described. In this instance, the lower terminations of the horizontal coils are constructed by a U-shaped bend in which the tongue rests. In Fig. 5: a somewhat similar construction is illustrated, in which the horizontal coils are omitted and a simple bend adapted to be passed under the tongue, substituted therefor, also, where the tongue is exceptionally heavy additional coils may be formed adjacent the supporting clip.

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

A tongue-support, comprising duplicate spring-arms bent substantially centrally of their length into coils and having the inner ends suitably formed to engage the axle of a vehicle an approximately U-shaped clip adapted for supporting the tongue and horizontally disposed coils formed by the bent up extremities of said arms encircling the legs of said U-shaped clip, as specified.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE H. MILLS.

Witnesses:

M. M. TAYLOR,
JOHN JOHNSTON.