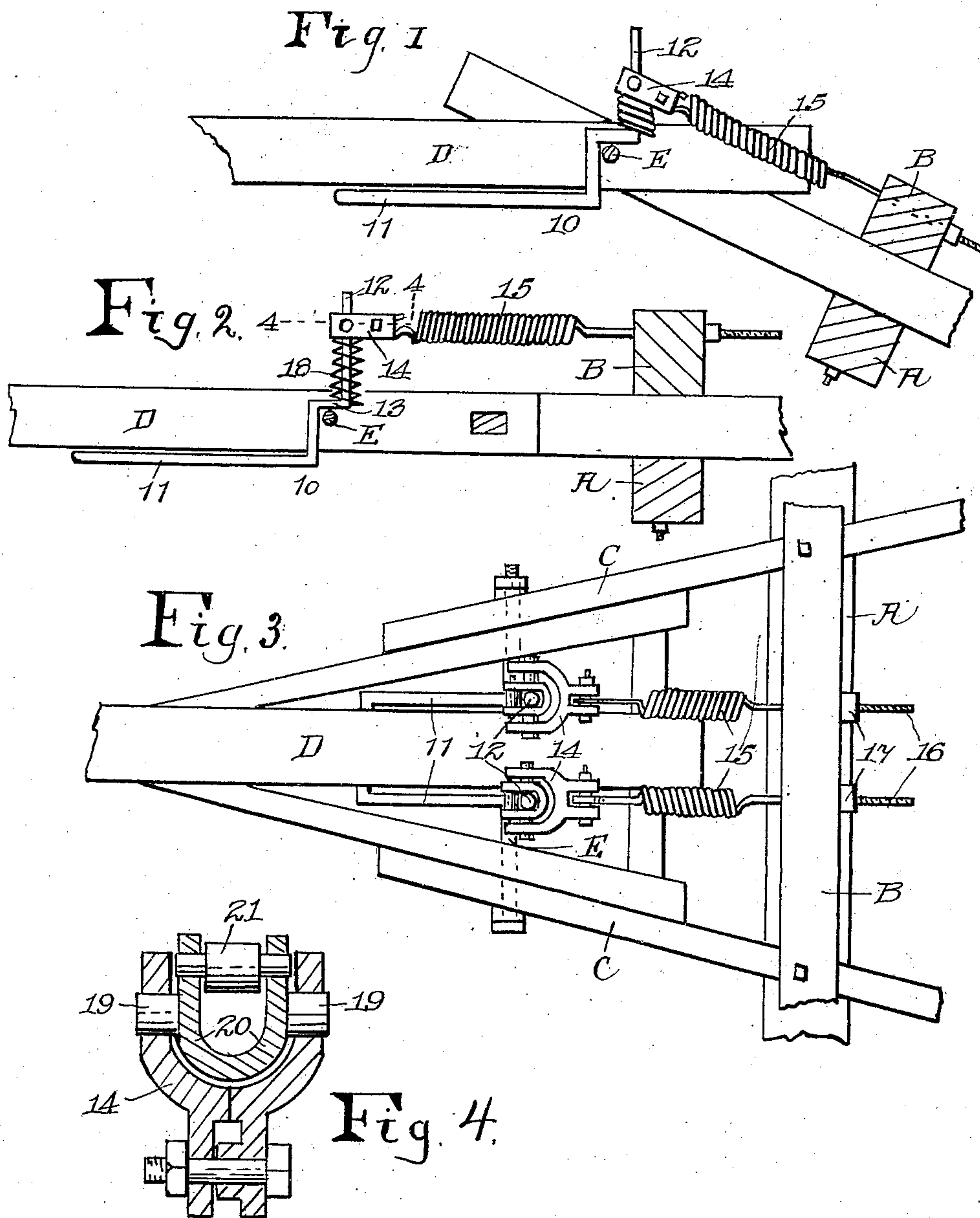


No. 876,760.

PATENTED JAN. 14, 1908.

F. ABRAMS & W. A. DOYLE.
WAGON TONGUE SUPPORTER.

APPLICATION FILED APR. 6, 1907.



Witnesses
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UNITED STATES PATENT OFFICE.

FRED ABRAMS AND WILLIAM A. DOYLE, OF MINDEN, NEBRASKA.

WAGON-TONGUE SUPPORTER.

No. 876,760.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed April 6, 1907. Serial No. 366,819.

To all whom it may concern:

Be it known that we, FRED ABRAMS and WILLIAM A. DOYLE, citizens of the United States, residing at Minden, in the county of Kearney and State of Nebraska, have invented certain new and useful Improvements in Wagon-Tongue Supporters, of which the following is a specification.

Our invention relates to a support for wagon tongues of the class shown and described in our application filed March 27th, 1906, and serially numbered 308,306, and the object of our invention is to provide an improved construction which may be readily applied to wagons already in use, in such manner as to relieve the horses of the weight of the tongue, and which will be particularly adaptable to dumping wagons.

Our invention consists in the following features of construction, arrangement and operation as will be hereinafter described and pointed out in the accompanying drawings, in which,

Figure 1 is a view partly in section, and partly in elevation of the device, the rear end of the wagon being lowered to dump. Fig. 2 is a similar view, the wagon being in a normal position. Fig. 3 is a plan view of the device shown in Figs. 1 and 2, and Fig. 4 is a sectional view, enlarged on the line 4—4 of Fig. 2.

Referring to the figures, A represents the front axle of a wagon, secured between which and the front rest B, are the hounds C, in which a tongue D is pivoted upon a bolt E, in the usual and well known manner.

In the practical embodiment of our invention, we provide a U-shaped tongue supporting member 10, bent to form horizontal connected legs 11, adapted to lie beneath the tongue D, and vertical legs 12 extending upwardly on both sides of said tongue and offset in their length at 13, said offset portion 13 being adapted to rest upon the transverse bolt or rod E as a pivot. A sliding yoke 14 is arranged upon the vertical legs 12 of the supporting member 10, and connected to each yoke and extending rearwardly therefrom is a strong retractile spring 15, the rearwardly extending stem 16 of which is mounted through a transverse opening, provided through the front rest B, and is also provided with a nut 17 threadedly engaging thereon, by which the tension of said spring 15 may be regulated. The yoke 14 is normally held ad-

jacent the upper end of its corresponding leg 12 by means of the coil spring 18, which allows said yokes to slide downwardly when the wagon is lowered to dump, as shown in Fig. 1, but which again raises said yokes when the wagon is raised. Mounted within the yoke 14 by means of its trunnions 19, extending loosely through the extensions thereof, is a supplemental frame 20, having a roller 21 adapted to directly contact with the legs 12, as shown.

From the foregoing description, and by reference to the parts indicated therein on the accompanying drawings, it will be seen that by this simple and cheaply constructed device we are able not only to support the tongue at all times, but that we are able to support said tongue in a substantially horizontal position no matter what the position of the wagon is. Thus the weight of the tongue upon the horses is relieved, and the tongue is further prevented from raising and striking the animals when the wagon is lowered to dump.

Having thus fully described the invention we claim:

1. In a device of the character described, the combination with a transverse supporting rod of a U-shaped tongue supporting member, having the upper portions of its legs offset and resting upon said rod as a pivot, a member slidably arranged upon the upper portions of said legs, above the offset thereof, springs arranged upon the upper portion of said legs between the offset thereof and said member, and forcing said member upward and retractile coil springs having their rear ends rigidly secured and their forward ends connected to said sliding member, substantially as described.

2. In a device of the character described, the combination with a transverse supporting rod of a U-shaped tongue supporting member, having the upper portions of its legs offset and resting upon said rod as a pivot, a sliding yoke frame mounted upon said legs above the offset thereof, retractile coil springs having their rear ends rigidly secured and their forward ends connected to said sliding frame, and means for normally pressing said sliding yoke frame upward on said legs, substantially as described.

3. In a device of the character described, the combination with a transverse supporting rod, of a U-shaped tongue supporting

member having the upper portions of its legs offset and resting upon said rod as a pivot, a sliding yoke mounted upon said legs above the offset thereof, a second yoke with-
5 in which said first yoke is pivotally mounted, retractile coil springs having their rear ends rigidly secured and their forward ends connected to said last named yoke, and means for normally pressing said sliding yoke

frames upward on said legs, substantially as 10 described.

In testimony whereof we affix our signatures in presence of two witnesses.

FRED ABRAMS.

WILLIAM A. DOYLE.

Witnesses:

J. H. JENSEN,

S. M. GODFREY.