

(No Model.)

A. J. BEACH.
TONGUE SUPPORT.

No. 280,896.

Patented July 10, 1883.

Fig. 1.

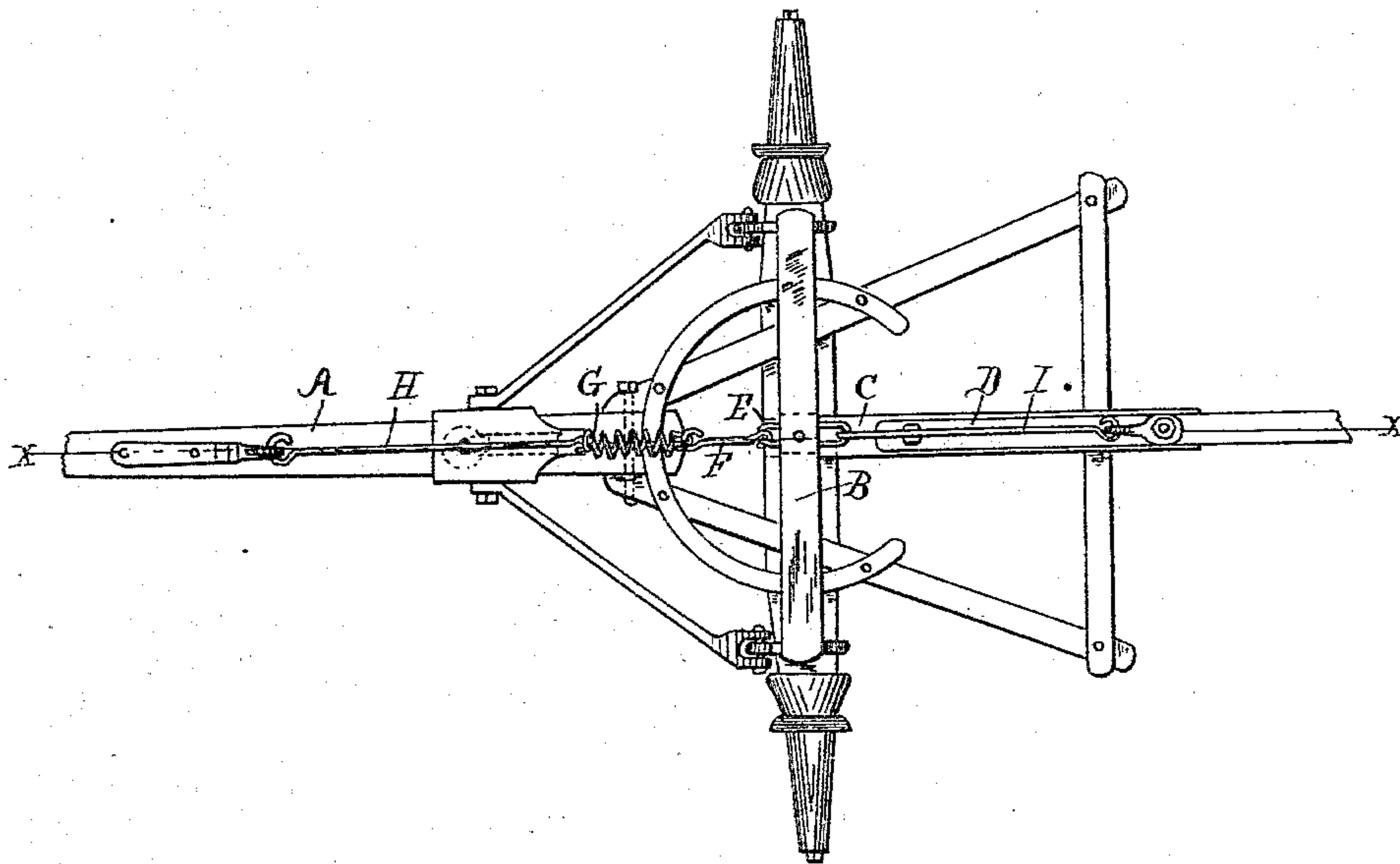
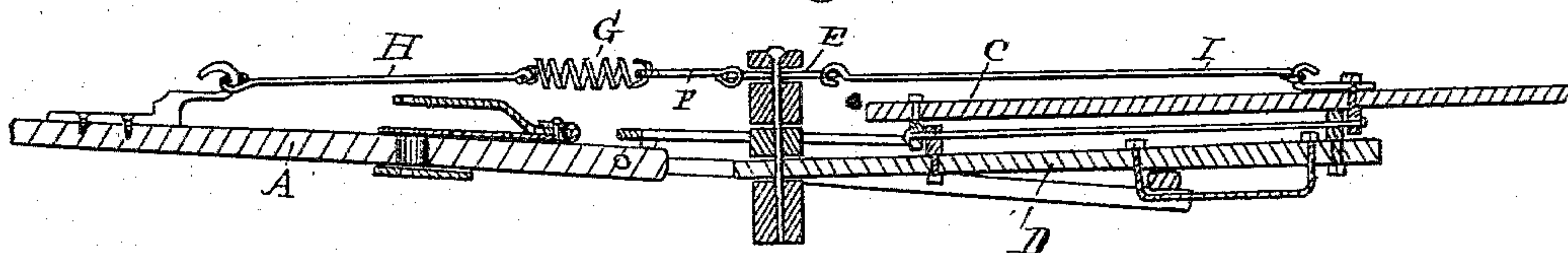


Fig. 2.



Attest:
A. J. Sprague
Charles J. Hunt

Inventor.
Allen J. Beach.
By Wm. L. Sprague
att'y.

UNITED STATES PATENT OFFICE.

ALLEN J. BEACH, OF FLINT, MICHIGAN.

TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 280,896, dated July 10, 1883.

Application filed April 19, 1883. (No model.)

To all whom it may concern:

Be it known that I, ALLEN J. BEACH, of Flint, in the county of Genesee and State of Michigan, have invented new and useful Improvements in Wagon-Tongue Supports; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and useful improvements in the construction of devices commonly called "wagon-tongue supports;" and the invention consists in the peculiar construction and arrangement of parts, 15 whereby the force necessarily exerted for sustaining the pole and relieving the weight thereof from the horses' necks is applied directly to and from the reach which connects the rear running-gear with the forward axle, 20 or directly from the rear running-gear itself, all as more fully hereinafter set forth.

Figure 1 is a top plan, showing the application of my invention to a wagon which is supplied with a rolling reach, substantially as described in Letters Patent granted to me 25 February 28, 1882; and Fig. 2 is a sectional view through the line *xx* in Fig. 1.

In the accompanying drawings, A represents the tongue; B, the bolster, and C the forward end of the rolling reach, which is pivotally secured to the draw-bar D, substantially as described in the Letters Patent hereinbefore referred to. 30

In the drawings I show the bolster as slotted at that point through which the king-bolt passes, and in this slot I place a link, E, the forward end of which is connected by a rod, F, to one end of the coil-spring G, the opposite end of which is connected by means of a rod, H, to a tongue in any suitable manner that will admit of the detaching of such spring, with its rods, from the tongue when desired. The rear end of this link E is secured by means of a connecting-rod, I, in any such manner that will not interfere with the rolling of 45 the reach.

While I show and describe this device as applied to a wagon provided with a rolling reach, it can readily be seen that it can advantageously be connected to a wagon of any construction by carrying the rear connection 50 from the link E back to the ordinary reach;

and it is equally as evident that the employment of the link passing through the bolster can be dispensed with, as a frame may be constructed which will extend upon either side 55 of the bolster and between it and the sand-board, or by any suitable attachment whereby the connections will be above the axle and allow of a free action of the spring, the tension of which should be sufficient to retain the tongue in a position at least slightly above the horizontal from the point of its attachment with the hounds. 60

I am aware that several devices have been employed for supporting the tongue; but they have all been connected in some manner directly to the forward running-gear, and have had the tendency to make the forward axle pitch or roll forward, bringing a strain upon 70 the king-bolt and sway-bars in many instances to that degree as to so arch the reach as to cause it to buckle, while at the same time they throw the bolster into such a position that the box does not find a solid seat upon its face. In my device the two points of resistance to the extension of the spring are upon 75 the tongue and the rear running-gear, and in this construction I do not interfere with the proper working of the front running-gear, no matter what its construction may be. 80

I am aware of Patent No. 235,465, of 1880, in which a tension-spring connects the tongue with the upper portion of the body-springs; but such construction is not sought to be covered in this application. 85

What I claim as new is—

1. In combination with the rolling reach C and the tongue A, each having hooks, as shown, the tension-spring J, and connecting-rods H I, adapted to be disengaged at will, and the whole to serve jointly, as and for the purposes set forth. 90

2. In combination with the reach C and tongue A, having hooks, as shown, the link E, passing through the bolster and embracing the king-bolt, the tension-spring G, and the link-rods F, H, and I, all adapted to serve as and for the purpose set forth. 95

ALLEN J. BEACH.

Witnesses:

CHARLES J. HUNT,
H. S. SPRAGUE.