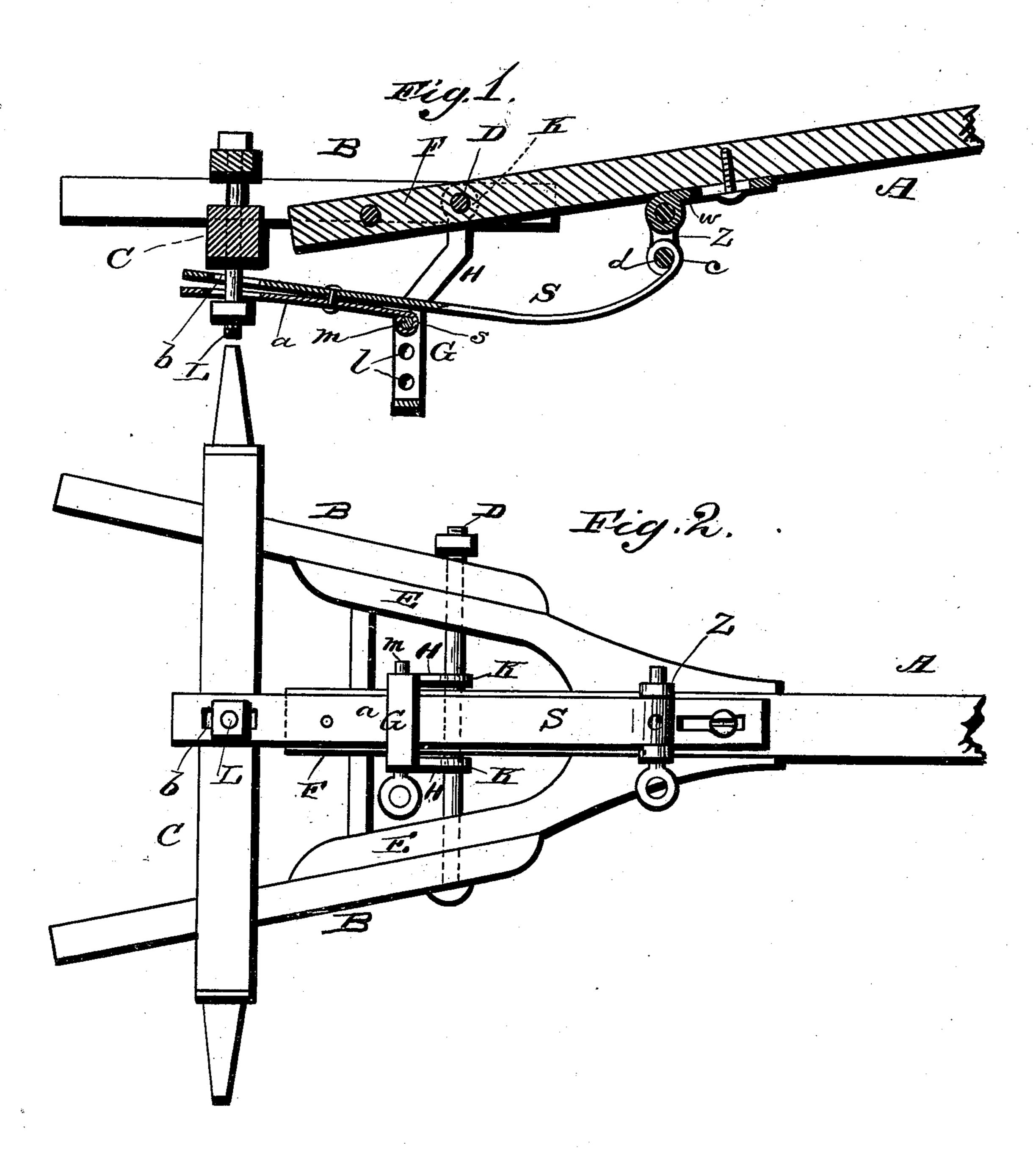
(No Model.)

## J. W. SCHWARZEL.

TONGUE SUPPORT.

No. 308,284.

Patented Nov. 18, 1884.



WITNESSES

Planting

John W. Schwarzel,

Ly audusm fmith

his Attorneys.

## United States Patent Office.

JOHN W. SCHWARZEL, OF TOPEKA, KANSAS.

## TONGUE-SUPPORT.

SPECIFICATION forming part of Letters Patent No. 308,284, dated November 18, 1884.

Application filed May 27, 1884. (No model.)

To all whom it may concern:

Be it known that I, John W. Schwarzel, a citizen of the United States, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Tongue-Supports; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical sec-

tion. Fig. 2 is a bottom view.

The object of this invention is to provide a yielding tongue-support for carriages and wagons; and it consists in the construction and novel arrangement of devices, as hereinafter set forth, and pointed out in the appended claims.

In the accompanying drawings, the letter A designates the pole; B B, the hounds, and C

25 the front axle.

D is the tongue-bolt, which passes transversely through the lateral branches E and

the rear end, F, of the tongue.

G represents a hanger-clevis, having the arms HH, extending downward and backward, which are provided with hooks or with eyes K, which engage the tongue-bolt D on each side of the tongue. The arms H H are provided with series of perforations l, forming bearings for the transverse pin m, which passes through the barrel-head s of the under spring, a, which is secured to the main spring S. The spring may be constructed of several leaves, when necessary. The rear portion of the spring extends back under the axle, and is longitudinally slotted at b to engage the king-

bolt L in such a manner that when the pole is suddenly thrown into an upwardly-inclined position the requisite play on the king-bolt will be allowed to the spring. The spring S 45 also extends forward of the clevis under the pole, and is provided with a barrel-head, c. which is designed to be pivoted, by means of a pin, d, to a bearing attached to the under side of the tongue. Usually a swinging bear- 50 ing, Z, is employed, this bearing or hanger being pivoted to a plate, w, secured to the tongue. The spring S is adjustable, being easily raised or lowered by changing the position of the clevis-pin m, on which it bears. 55 The hanger allows the spring to move easily, and vibrates freely under the movements of the spring, so that there is very little friction.

In some cases the head of the spring may be used without a pivot, a slotted wear-plate be- 60 ing adjustably attached to the under side of the tongue, and adapted to allow a sliding movement of the spring-head. The spring supports the tongue in a yielding manner, so that there will be no sudden jerks caused by 65 the pole on the necks of the horses.

Having described this invention, what I claim, and desire to secure by Letters Patent,

The combination, with the main spring S, 70 having an under spring, a, engaging a pinbearing, of the clevis-hanger having series of perforations in its arms for the pin-bearing, the tongue-bolt, the bearing for the front end of the spring, and the king-bolt, substantially 75 as specified.

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

JOHN W. SCHWARZEL.

Witnesses:

GEO. L. EPPS, E. E. BAKER.