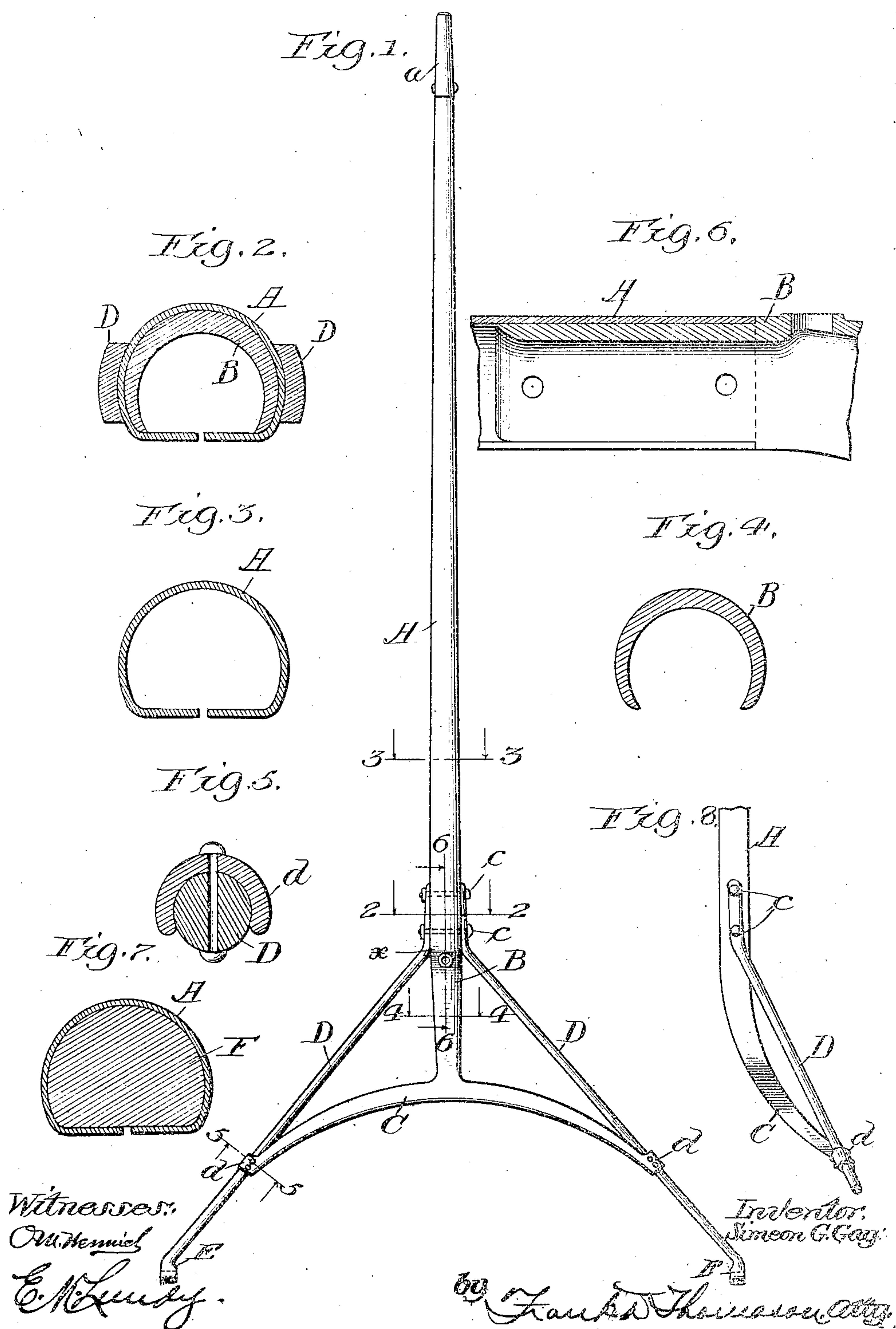


S. G. GAY.  
WAGON TONGUE OR POLE.  
APPLICATION FILED JAN. 11, 1907.





# UNITED STATES PATENT OFFICE.

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WAGON TONGUE OR POLE.

No. 875,575.

Specification of Letters Patent.

Patented Dec. 31, 1907.

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To all whom it may concern:

Be it known that I, SIMEON G. GAY, a citizen of the United States, and a resident of Ottawa, in the county of LaSalle and State of Illinois, have invented certain new and useful Improvements in Wagon Tongues or Poles, of which the following is a full, clear, and exact description.

My invention relates to tongues or poles for vehicles, and its object is principally to dispense with the use of wood in the construction of the same, or to permit the use of an inferior or altogether different kind of wood than that which it is now customary to make them, and at the same time produce a more durable, stronger and more economically made pole or tongue than is now possible. This I accomplish by the means hereinafter fully described and as particularly pointed out in the claims.

In the drawings:—Figure 1 is a plan view of my invention. Fig. 2 is a transverse section taken on dotted line 2—2, Fig. 1, and drawn to a larger scale. Fig. 3 is a transverse section taken on dotted line 3—3, Fig. 1, and drawn to a larger scale. Fig. 4 is a transverse vertical section taken on dotted line 4—4, Fig. 1. Fig. 5 is a transverse section taken on dotted line 5—5, Fig. 1. Fig. 6 is a longitudinal central section of the joint of the forward sweep of the pole or tongue and the tree forming the rearward extension thereof, taken on dotted line 6—6, Fig. 1. Fig. 7 is a section similar to that shown in Fig. 3, showing a modified form of my invention. Fig. 8 is a side view of the rear portion of my improved pole.

Referring to the drawings, A represents a pole or tongue for a vehicle, which is, preferably, made of pressed sheet steel into a tubular form, substantially as shown in Fig. 3 of the drawings, with the longitudinal edges brought near each other beneath the pole, and, if desired, united by soldering or otherwise. This pole is shown as being tapered from its forward end to the point *x* near where the double-tree is pivoted thereto, and it has a malleable iron tip *a* fitted over its forward end, and its rear end, which is shown as terminating just in front of the pivot of the double-tree, is fitted over the forward reduced end of the longitudinal extension B and is secured thereto by bolts *c*, *c*. The extension B has its rear portion curved downwards, and its rear extremity is provided with a circle-bar C the branches of which are, preferably, curved slightly to the

rear and downwardly, and have their extremities provided with sleeves or knuckles *d*, *d*. Secured to the sides of the rear end of the tongue A, preferably, by the same bolts *c*, that secures said pole to the forward end of the extension B, are braces D, D, that extend in practically a straight line from the rear end of the tongue obliquely in opposite directions, and pass through the knuckles *d*, and at a suitable distance to the rear thereof have their extremities turned in a plane parallel to the axis of the tongue, and formed into the pole-eye E. The braces D are, preferably, made of round steel rods, and are secured within the knuckles *d*, by riveting or otherwise; the tree composed of the circle-bar C, and extension B, is made, preferably, of malleable iron, and are of an inverted channel-shape form. As thus constructed a very strong, durable and light-weight tongue is made, which will avoid the objections existing in wooden tongues, inasmuch as it is not affected by moisture, nor heat or cold, and will not break or produce splinters, as the wooden tongues now in common use will do under certain conditions.

If desired, the tongue and the tree may be made to envelop and inclose a wooden filler F, substantially as shown in Fig. 7. In this event the thickness of the metal employed in constructing the pole and the tree may be reduced, so as to compensate for the increased weight, and the wood may be of any inferior grade which it would not be desirable to use, if the parts were made of wood alone.

What I claim as new is:—

1. A pole or tongue for vehicles comprising a tubular pressed metal portion in front of the double-tree pivot, braces secured to and extending diagonally from the sides of the rear end thereof, and a pressed metal rear extension for said tongue having a circle-bar through the ends of the branches of which said braces pass and are secured.

2. A pole or tongue for vehicles comprising a tubular pressed metal portion in front of the double-tree pivot, braces secured to and extending diagonally from the sides of the rear end thereof, and a pressed metal rear extension for said tongue having a circle-bar through the ends of the branches of which said braces pass and are secured and which are of an inverted channel-shape in cross-section.

3. A pole or tongue for vehicles comprising



ing a pressed metal portion in front of the double-tree pivot, a separate pressed metal extension to the forward end of which said tongue is secured and having a circle-bar, and  
5 metallic braces secured to and projecting diagonally from the sides of the rear end thereof, said extension and the branches thereof being of an inverted channel-shape in cross section and the latter terminating in  
10 knuckles through which said braces extend.

4. A pole or tongue for vehicles comprising a tubular pressed metal portion in front of the double-tree pivot, a malleable metal extension which is of an inverted channel-shape  
15 in cross section, has the rear end of said tubular portion fitted over and secured to its for-

ward end, and is provided at its rear end with an integral circle-bar the extremities of which terminate in knuckles, and diagonal braces made of steel rods the forward ends of  
20 which are secured to the rear end of the tubular portion, and extend back through the said knuckles, and have their rear ends terminate in pole-couplings.

In testimony whereof I have hereunto set  
25 my hand and seal this 21st day of December, A. D., 1906.

SIMEON G. GAY. [L. s.]

Witnesses:

G. BARNARD,  
K. J. SCHMID.