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PATENTED APR. 3, 1906.

W. FARBER.  
THRESHING MACHINE TONGUE.

APPLICATION FILED JUNE 24, 1905.

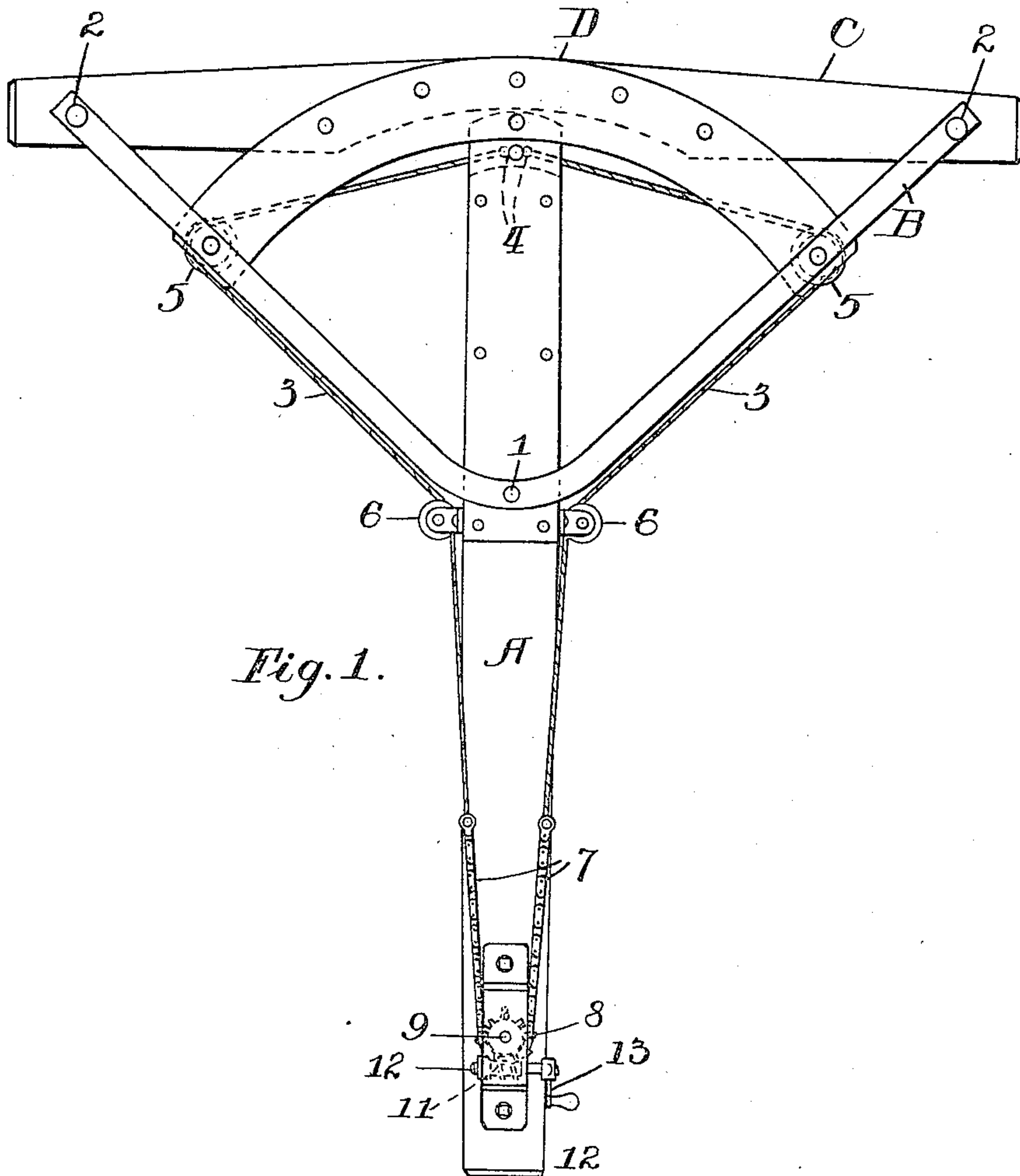
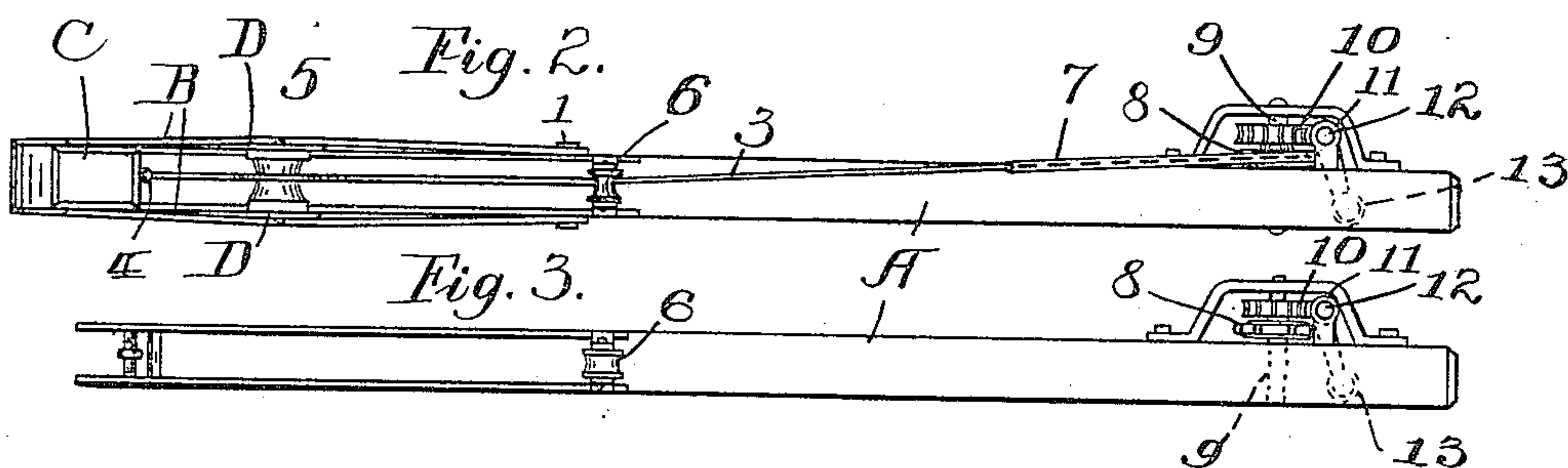


Fig. 1.



Witnesses:

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# UNITED STATES PATENT OFFICE.

WILLIAM FARBER, OF LONG PRAIRIE, MINNESOTA, ASSIGNOR OF ONE-HALF TO AUGUST FITZER, OF RAMSEY COUNTY, MINNESOTA.

## THRESHING-MACHINE TONGUE.

No. 816,572.

Specification of Letters Patent.

Patented April 3, 1906.

Application filed June 24, 1905. Serial No. 266,777.

*To all whom it may concern:*

Be it known that I, WILLIAM FARBER, a citizen of the United States, residing at Long Prairie, in the county of Todd and State of Minnesota, have invented a new and useful Threshing-Machine Tongue, of which the following is a specification.

My invention relates to improvements in tongues for threshing-machines.

It has for its object to adapt a threshing-machine to be more easily and safely hauled from place to place by a traction-engine.

In the use of a threshing-machine fitted with a tongue of the usual type difficulties are experienced, especially upon abruptly-curved and steep roads or trails, in hauling the machine from one place of operation to another, because such a machine is not readily guided so that it will track or follow the engine. I have obviated these difficulties, practically eliminating the danger of ditching the machine and facilitating the work of hauling by the means hereinafter described and claimed.

In the drawings, Figure 1 is a plan view of my device. Fig. 2 is a side elevation of the same, and Fig. 3 is a side elevation of the tongue proper removed from the guide plates and braces.

A is the tongue proper of my improved device. This tongue is pivoted between curved brace-rods B by means of a bolt 1, so that it freely swings about said bolt as a center. The brace-rods B are two in number—one above and the other below the tongue. They are rigidly attached by bolts at their outer ends, respectively above and below a cross-bar C, as shown at 2. The cross-bar may be attached to the thresher in the usual manner. The inner end of the tongue is slidably inclosed between two quadrant-shaped guide-plates D—one above and the other below the tongue—which are bolted or otherwise fastened at their ends to the brace-rods B and along their central portions to the cross-bar C. A cable 3 is attached to the tongue near its inner end at 4. This cable runs over sheaves 5, placed between the outer ends of the guide-plates D, and then over pulleys 6 on the tongue near the curved centers of the brace-rods B and is attached at each end to a chain 7. The chain runs over a sprocket-wheel 8, placed near the forward end of the tongue. Upon the same shaft 9 with this

sprocket-wheel is a gear-wheel 10, which meshes with a worm 11 upon a shaft 12, placed at right angles to the sprocket-shaft. The gear-wheel 10, as well as the sprocket, is of course rigidly fixed on the shaft 9. The worm-shaft 12 is provided with a crank and handle 13, by means of which the sprocket-wheel may be operated through the gearing above described, and the chain and cable draw the inner end of the tongue either to the right or left, as desired. When the threshing-machine is attached to the rear of a traction-engine, it may thus be guided by merely turning the handle 13.

It is obvious that the arrangement of the guide-plates D and brace-rods B is such as to give great strength to the device, no matter in what position the tongue may be turned upon the pivot.

In operation the tongue may be turned to the right or left by one of the thresher hands, either from the rear of the traction-engine or walking beside the threshing-machine, by manipulating the handle 13.

While the form of device which I have described is particularly adapted for use on threshing-machines, it may be used with equal effect on many forms of vehicles which it may be desirable to haul behind an engine, and I do not wish to be understood as confining the claims to the use of my tongue upon threshing-machines exclusively.

Having described my invention, what I claim as new, and desire to protect by Letters Patent, is—

1. In a device of the class described, a tongue pivoted between brace-rods in combination with guide-plates for the inner end of the tongue and a system, consisting of pulleys, a cable, chain, sprocket, worm and crank, for controlling the angle of the tongue relative to the vehicle to which it is attached.

2. In a device of the class described, a tongue pivoted between brace-rods near its center and having its inner end free to swing between guide-plates, in combination with a cable attached to the inner end of said tongue and provided with sheaves for carrying said cable, and a chain, sprocket, tongue, worm and crank for drawing the inner end of said tongue either to the right or left.

3. A device of the class described, comprising a cross-bar adapted to be attached to the front axle of a threshing-machine, a pair



of curved braces rigidly attached at their ends to said cross-bar, a tongue pivoted between the centers of said braces, a pair of guide-plates for the inner end of the tongue, and means for swinging said tongue to the right or left.

4. A device of the class described, comprising a pair of curved braces, one above the other, rigidly attached at their ends to a threshing-machine and forming bows in front of said machine, a pivot between the centers of said braces, a tongue, free to swing at both extremities, carried by said pivot, and means for swinging said tongue.

5. A device of the class described, comprising a pair of forwardly-curved braces, a pivot between said braces, a tongue centrally

journaled upon said pivot, and means for swinging said tongue to the right or left and holding it in a predetermined position.

6. A device of the class described, comprising a frame provided with a pivot near its front, a tongue centrally journaled upon said pivot and provided with guide-plates for its rear end, and means for swinging said tongue upon said pivot and holding it at a desired angle to the threshing-machine.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM FARBER.

Witnesses:

E. M. BOESEL,

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