J. B. DENNING.
TONGUE FOR VEHICLES.

No. 260,545. Patented July 4, 1882. 0 0 FligJ OA 0 0 0 0 Fig.2 Fig. 4 Fig.3 a' iventar Attest Edgas

UNITED STATES PATENT OFFICE.

JOHN B. DENNING, OF MIAMI, ASSIGNOR OF ONE-HALF TO GEORGE WABUITZ, JR., OF SATER, OHIO.

TONGUE FOR VEHICLES.

SPECIFICATION forming part of Letters Patent No. 260,545, dated July 4, 1882. Application filed April 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, John B. Denning, of Miami, in the county of Hamilton and State of Ohio, have invented certain new and useful 5 Improvements in Tongues for Wheeled Vehicles, of which the following is a specification.

My invention is in the nature of an improvement upon draft-tongues for wheeled vehicles, land-rollers, &c.; and it consists in jointing the to tongue at the point where the double-tree is usually attached in such a manner that at the will of the driver it may be bent, either to the right or left, at a right angle, so that the strain of turning the vehicle shall be mutually borne 15 by both horses of the team instead of mainly by one horse, as with the stiff tongue. When the tongue is straightened up it is retained in this position by a spring bolt or catch, which is withdrawn by means of a hand or foot lever 26 when the tongue is to be turned.

In the accompanying drawings, Figure 1 is a plan of a land-roller containing my improved tongue. Fig. 2 is an enlarged plan of the joint. Fig. 3 is a sectional elevation of the 25 parts shown in Fig. 2, and Fig. 4 is an end elevation of the upper member of the joint.

Similar letters of reference indicate similar

parts.

A is the tongue, consisting of the rigid part 30 a, firmly attached to the front running gear of the vehicle, and of the movable part a', attached to the rigid part a by means of the joint B. This joint consists of the lower plate, b, attached by means of bolts to the part a of 35 the tongue, and of the upper plate, b', attached by bolts to the part a' of the tongue. The upper plate, b', is provided with a staple, b3, preferably cast a part of the plate, for the reception of the butt of the movable part a' of the 40 tongue, and the lower plate, b, is provided with a fulcrum, b2, in which the lever or arm C is

D is a hand-lever pivoted to the part a of the tongue and provided with pins d \bar{d} , so that 45 a pull or a push on the lever will elevate the rear end of the lever or arm C and withdraw from their respective sockets the bolts or

b4 b4 are the sockets for the bolts, consisting

match when the two portions of the tongue A are in line, and through which the bolts c c pass to secure the movable part a' of the tongue in a straightened position.

d' is a pin in the side of the lever D, by means 55 of which the lever may be operated by the foot

of the driver.

E is the customary brace, which laps over the double-tree, (not shown,) and through which the pin b⁵ passes to secure the double-tree to 60 the tongue, which pin also serves as a pivot for the two members or parts b and $b^{\bar{i}}$ of the joint B.

By reference to Fig. 3 it will be observed that the plates b and b' are provided with 65 grooved flanges b^6 and b^7 , which receive the circular ends of the opposite plates—that is, the circular end of the plate b' rotates in the groove or channel of flange b6, and the circular end of the plate b rotates in the groove or 70 channel of the plate b^7 . By means of these flanges additional strength is imparted to the joinť B.

A spring, c', fastened at one end to the under side of the rigid part a of the tongue and 75 pressing at the opposite end upon the rear arm of the lever C, forces the bolts cc into the sockets b^4 b^4 of the joint whenever said sockets in the respective plates b and b' register—that is, when the movable part a' of the tongue is 80 brought into line with the rigid part a.

The plates b and b', lever C, and hand-lever D may be made of cast or malleable iron, as preferred, and the joints B may be fitted up as an independent manufacture to be applied to 85

vehicle-tongues now in use.

The application of a tongue of this character is limited only by the kinds of wheeled machines made, and is absolutely indispensable with heavy land rollers, trucking wagons, 90 plows, cultivators, and, in fact, all vehicles or draft-machines requiring a team of two or more horses.

Having described my invention, what I claim

1. The combination, with a tongue composed of rigid and movable parts a a', united by a swiveled joint, B, of a horizontal lever, C, pivoted intermediate its ends and provided at its 50 of mortises or notches in the plates b b', which I forward portion with means to lock the mova- 100

ble part of the tongue, and a device for tilting said lever on its pivot to depress its forward end, substantially as described.

2. The combination, with a tongue composed 5 of rigid and movable parts $a a^{\prime}$, united by a swiveled joint, B, of the horizontal lever C, pivoted intermediate its ends and provided with means to lock the movable part of the tongue, and the pivoted hand-lever D, having means ic to elevate the rear end of the locking-lever by swinging said hand-lever either forward or backward, substantially as described.

3. The combination, with the tongue composed of the rigid and movable parts a a', of 15 the plate b, attached to the rigid part and pro-

vided with the grooved flange b^6 , the plate b', attached to the part a' and provided with the grooved flange b^7 , both of said plates having coincident sockets b4, the connecting-pin b5, the locking-lever C, pivoted under the tongue, and 20 means for tilting the locking-lever, substantially as described.

In testimony whereof I have signed my name to the foregoing specification in the presence

of two subscribing witnesses.

JOHN B. DENNING.

Witnesses:

Geo. Wabuitz, Jr., J. R. Thompson.