

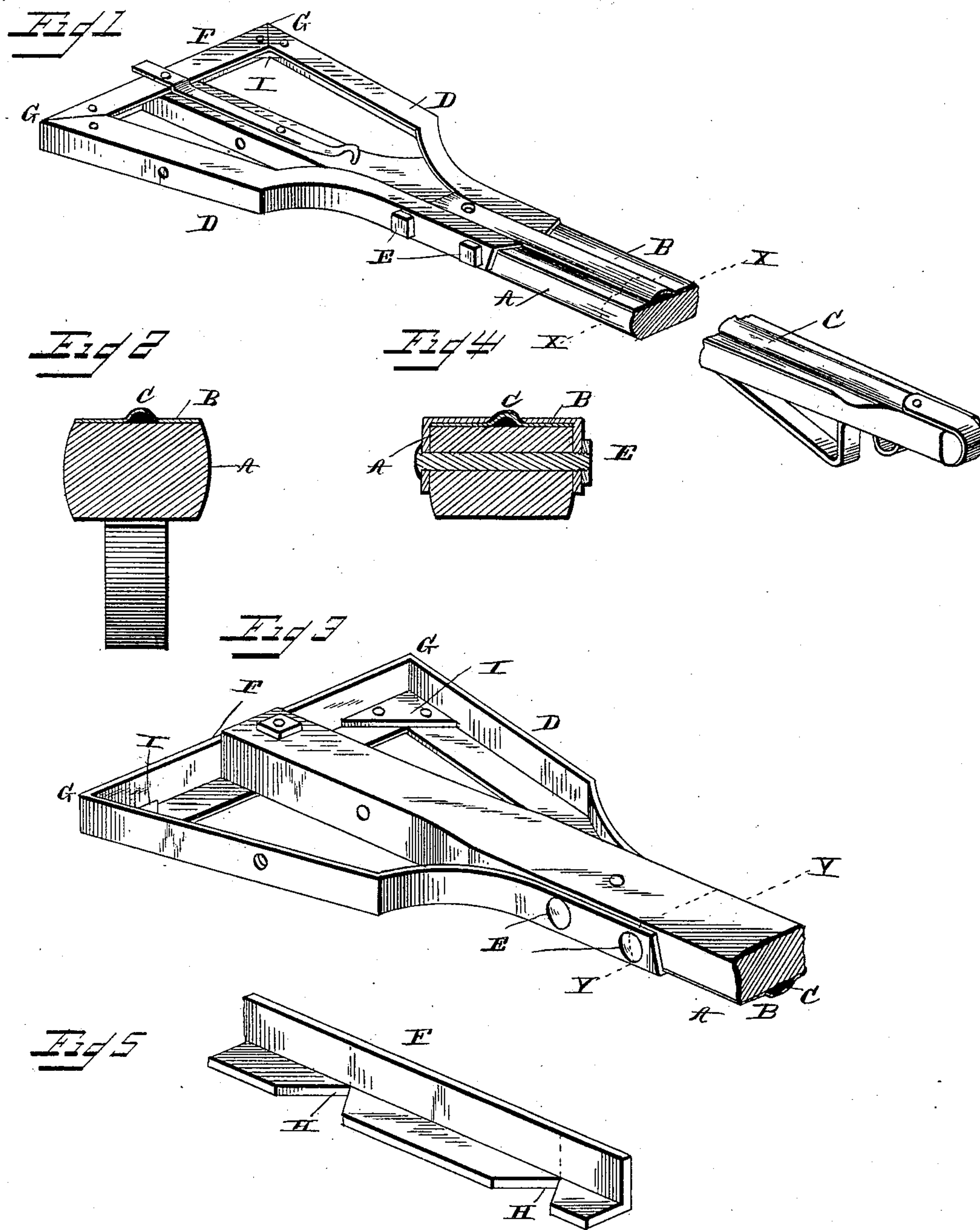
(No Model.)

T. G. MANDT.

WAGON TONGUE.

No. 390,871.

Patented Oct. 9, 1888.



WITNESSES.

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UNITED STATES PATENT OFFICE.

TARGE G. MANDT, OF STOUGHTON, WISCONSIN.

WAGON-TONGUE.

SPECIFICATION forming part of Letters Patent No. 390,871, dated October 9, 1888.

Application filed March 16, 1888. Serial No. 267,326. (No model.)

To all whom it may concern:

Be it known that I, TARGE G. MANDT, a citizen of the United States, and a resident of Stoughton, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Wagon-Tongues; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved wagon-tongue. Fig. 2 is a cross section of the same on the line *xx*, Fig. 1. Fig. 3 is a perspective view of the rear end of the tongue and its hounds, showing the same from the under side, or in an inverted position. Fig. 4 is a cross-section on the line *yy*, Fig. 3; and Fig. 5 is a detail view of one corner of the hound-plates, showing the same before they are bent to form the corner.

Like letters of reference denote corresponding parts in all the figures.

My invention has relation to that class of tongues or poles of vehicles or wagons in which the wooden portion is re-enforced or strengthened by a metallic strip secured thereto; and it consists in the improved construction and combination of parts of a compound wagon-tongue, as will be hereinafter more fully set forth.

In the accompanying drawings, the letter A denotes the body of the tongue proper, which is made of wood, and by preference, though not necessarily, flattened in shape. Upon the top of this body I place a plate, B, of steel or iron and provided with a central longitudinal bead, C. The sides of the plate B are shaped so as to conform to the tapering shape of the body A, the longitudinal central rib or bead on the top plate extending from the forward part of the tongue to the rear end of the same at the point where the hounds are attached. This raised part or bead C is formed by running the plate through a suitable roll, whereby one side of said plate along its central part will be depressed, so as to form the bead, as clearly shown in the cross-section, Fig. 2, thus forming a hollow space between the bead and the top part of the tongue proper.

To the rear end of the tongue, and forming part thereof, are attached the usual hounds, D D, which are made of angle-iron or steel, and securely fastened to opposite sides of the tongue-body A by bolts E E, inserted through the downwardly-projecting flanges of the hounds, which, as will be seen by reference to Fig. 4, bear against opposite sides of the rear end of the tongue-body, the flat parts of the angle-irons overlapping the tongue-body and also overlapping the rearward part of the reinforcing plate B, so as to impinge upon opposite sides of its central raised part or bead, C. The rear cross piece, F, is formed by bending the angle-iron of which the hounds are made so as to form two corners, G G, and in order to permit such bending of the angle-irons I cut out a portion of the flat part or flange at the point where the corner is to be made, as shown at H, Fig. 5, which permits of the ready bending of the downwardly-projecting flange; and after forming the corner in this manner the corner is re-enforced by means of a triangular brace-plate, I, placed in each corner and securely riveted to the under side of the flat part or flange of the hound-irons, as will be seen by reference to Fig. 3 of the drawings.

The re enforcing plate B, as well as the hound-irons, are preferably made of steel, and by the employment of the corner-plates, I I, the hounds may be made not only very light but of great strength and durability. By employing a thin steel plate having a central bead for the purpose of re-enforcing the tongue or pole along its entire length the wood of which this is made may be made very light, and yet this compound pole will possess a very great degree of strength and rigidity, so that it will resist both lateral and vertical strain without injury.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The compound wagon tongue or pole herein shown and described, consisting of a body made of wood re-enforced through its entire length by a flat plate of iron or steel and provided with a longitudinal bead or rib raised from the body of the metal, substantially as shown and set forth.

2. The compound wagon tongue or pole

herein shown and described, consisting of a body made of wood re-enforced through its entire length by a flat plate of iron or steel and provided with a longitudinal bead or rib
5 raised from the body of the metal, so as to form a hollow space between the said raised part or bead and the top of the underlying wooden tongue, substantially as shown and set forth.

3. The combination, with the tongue, of the
10 hound-plates, made of angle-iron or steel, having a portion of their horizontal flat parts cut away at the corners, and having said corners or bends re-enforced by triangular brace-plates, substantially as and for the purpose
15 set forth.

4. The combination of the wooden tongue or

pole, the longitudinal re-enforcing plate having a central bead extending from end to end, and the hound plates or irons constructed as described, the front part of said hound plates or
20 irons overlapping the rear part of the re-enforcing tongue-plate and impinging upon opposite sides of its central bead, substantially as shown and set forth.

In testimony that I claim the foregoing as my
25 own I have hereunto affixed my signature in presence of two witnesses.

TARGE G. MANDT.

Witnesses:

THORVALD C. LUND,
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