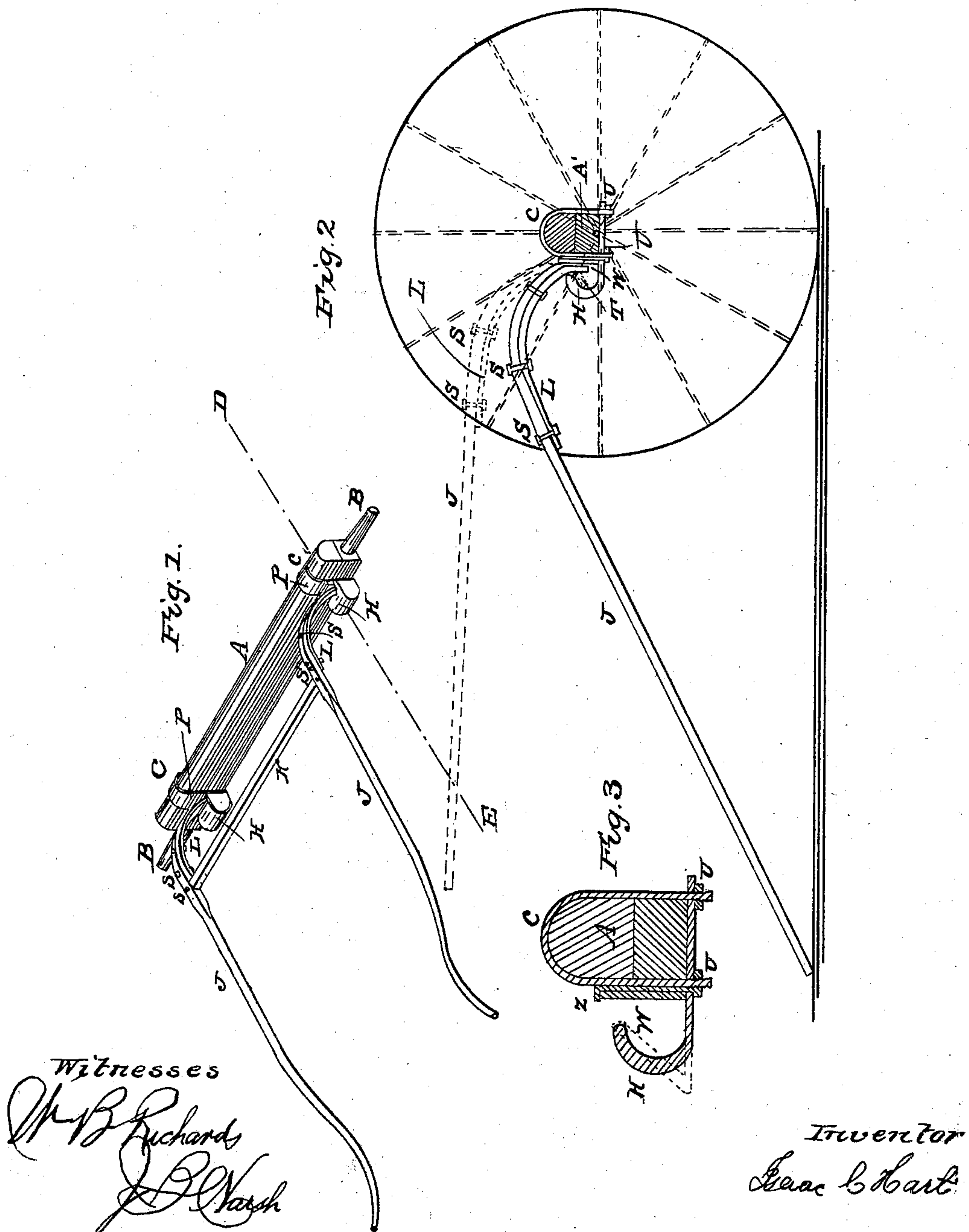


I. C. HART.  
Thill Coupling.

No. 80,626.

Patented Aug. 4, 1868.



# UNITED STATES PATENT OFFICE.

ISAAC C. HART, OF GALESBURG, ILLINOIS.

## IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. 80,626, dated August 4, 1868.

*To all whom it may concern:*

Be it known that I, ISAAC C. HART, of Galesburg, in the county of Knox and State of Illinois, have invented a new and useful Machine for Coupling Thills and Tongues to Carriages; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a sectional view on the plane of the line E D, and Fig. 3 is a sectional view.

Similar letters of reference indicate corresponding parts.

The nature of my invention relates to an improved device for coupling or connecting the thills or tongues of carriages to the axle; and the invention consists in the peculiar shape of the iron at the rear end of the thills and pole, and in the peculiar shape of the iron attached to the axle, whereby the thills or tongue may be easily attached or released when desirable, or may be held securely and firm when in use.

To enable those skilled in the art to make and use my invention, I will proceed to the following fuller and clearer description of its construction and operation.

Letter A, Fig. 1, represents the axle of any common carriage, buggy, cart, or wagon. Letter B, Fig. 1, are the spindles. Letter J in the drawings represents thills, which may be of any ordinary construction. Letter C represents the clips, constructed and attached as in ordinary vehicles. Letter L represents the iron attached to the thills, as usual, and simply having a short bend at the rear end, as seen at Fig. 2.

Letter H represents an iron plate, extending under the axle, and attached to the axle, the same as the ordinary clevis, by the nuts U U on the lower end of the clips C. This iron H may be outwardly of any shape to suit

the convenience or the taste, but should be shaped inside and forward similar to either the full or the dotted lines H, Fig. 3.

Letter Z, Fig. 3, represents a thin metal plate, held at the lower end by passing through the plate H, and curved outward at the upper end, in order to hold the rubber plate W. The rubber W will prevent all rattling when in place, and when not in place the metal plate Z will take all wear from the clip C.

These irons H, constructed in the form shown, may be attached to any ordinary carriage by means of the ordinary clips, and the iron L, being attached to the rear end of the thills or tongue, all that is necessary in order to connect them with the axle will be to drop the forward end of the thills, as shown by the full lines at Fig. 2, in which position the hook on the end of plate L may be easily inserted between the plate H and the axle A; then, when the thills are raised to the position shown by the dotted lines, Fig. 2, the hook on the plate L will be thrown forward, and the thills or tongue securely attached to the axle, until again lowered, when they may be instantly and easily removed, for convenience in putting the carriage in a small space when not in use, or for convenience in changing and putting a tongue in place of thills, or vice versa.

The rubber W will prevent wear on the clip, and at the same time prevent all rattling and noise when in use.

What I claim as new, and desire to secure by Letters Patent, is—

The plate H and hook L, constructed and arranged as described, and combined with the axle A, clip P, and tongue or thills J, substantially as described, and for the purpose set forth.

ISAAC C. HART.

Witnesses:

W. B. RICHARDS,  
J. B. HARSH.