J. H. JENINGS.

Thill Coupling.

No. 107,782. Patented Sept. 27, 1870.

Fig. 1.

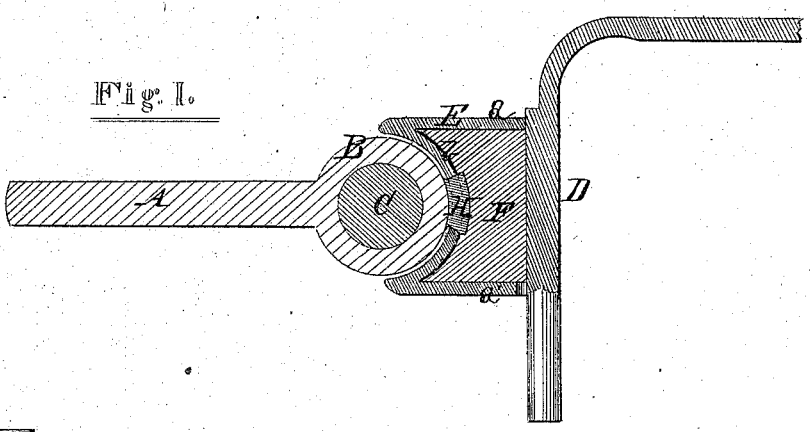


Fig. 2.

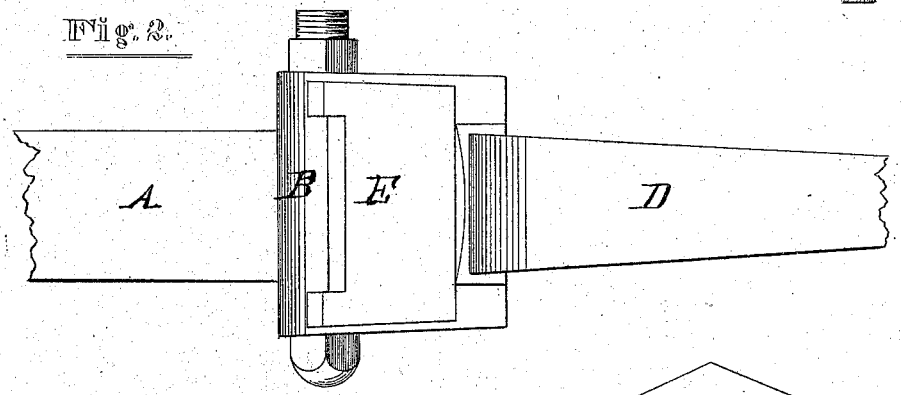


Fig. 4.

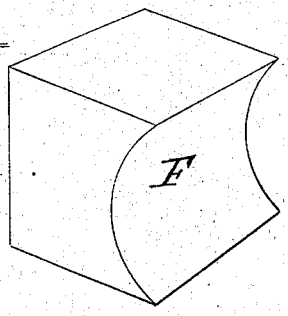
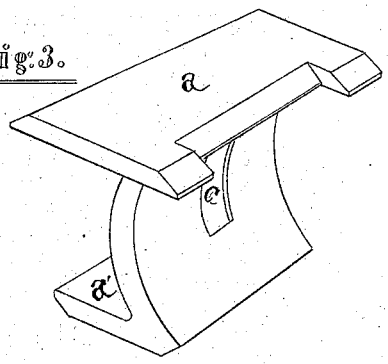


Fig. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

J. HENRY JENINGS, OF NEW BEDFORD, MASSACHUSETTS.

IMPROVEMENT IN THILL-COUPLINGS.

Specification forming part of Letters Patent No. **107,782**, dated September 27, 1870.

To all whom it may concern:

Be it known that I, J. HENRY JENINGS, of New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and valuable Improvement in Thill-Couplings; 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, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of central longitudinal vertical section of my invention. Fig. 2 is a plan view of the same. Figs. 3 and 4 are details.

My invention relates to an improvement in thill-couplings; and it consists in the construction and novel arrangement of devices designed to serve an efficient purpose in preserving a tight joint.

The letter A of the drawings represents the shaft-iron, at the end of which is formed a transverse sleeve, B, through which passes the hinge-bolt C.

D represents that portion of the coupling which is attached to the axle.

E designates a movable piece placed between the sleeve B and the rear wall of the recess in the part D, behind the same. This movable piece consists of two horizontal plates, *a a'*, connected by a semicircular partition, *b*, which is centrally slotted at *c*. The upper plate, *a*, has more breadth than the lower one, *a'*, whereby it is enabled to be extended over the joints at each side, protecting them from extraneous matter.

F designates a rubber cushion, concave in front, and designed to fit in rear of the concavo-convex partition *b*, the convex side of which is turned toward the rubber.

H designates a small block of rubber, inserted through the slot *c*, and projecting sufficiently, both in front and in rear, to press against the sleeve B and the rubber cushion F. The action of the rubber is constantly to press the piece E forward against the sleeve B; yet it is not always in contact therewith on account of the block H. Undue friction is thereby prevented.

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

1. In combination, the thill-iron A, movable piece E, axle-iron D, rubber cushion F, and rubber block H, substantially as shown and described.

2. The movable piece E, consisting of the horizontal plate *a a'*, connected by the concavo-convex partition *b*, slotted centrally, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

J. HENRY JENINGS.

Witnesses:

SAMUEL BENNETT,

CHAS. A. W. OESTING.