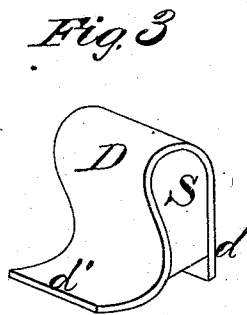
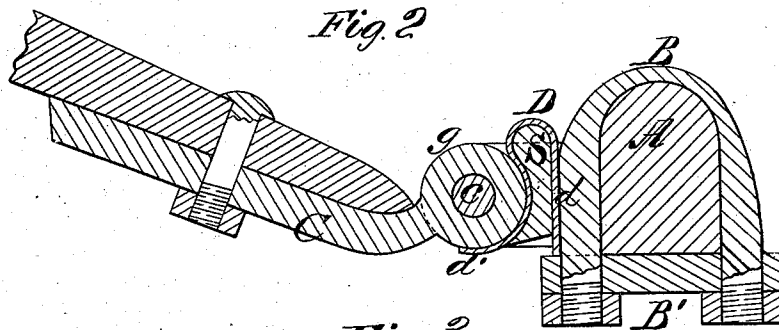
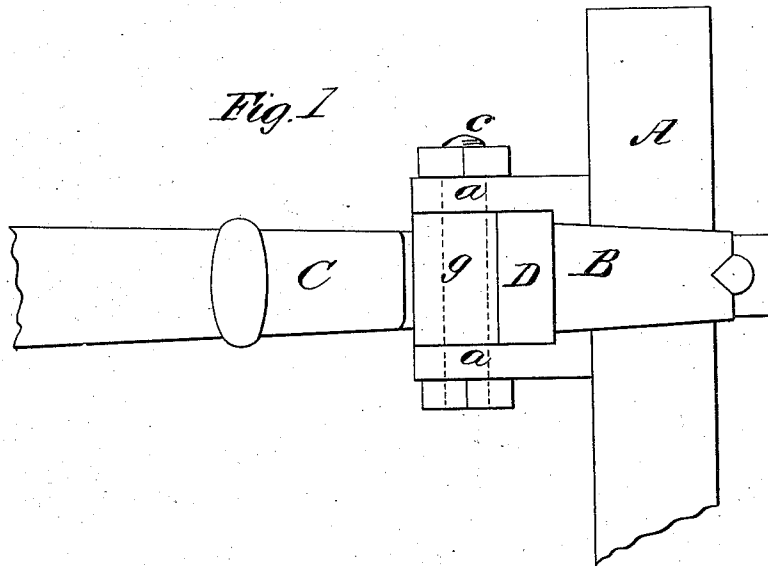


O. C. CORNELL.
Thill-Couplings.

No. 154,648.

Patented Sept. 1, 1874.



WITNESSES

Mary J. Votey
Geo. E. Upham

INVENTOR

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UNITED STATES PATENT OFFICE.

OLIVER C. CORNELL, OF SING SING, NEW YORK, ASSIGNOR OF TWO-THIRDS HIS RIGHT TO RICHARD AUSTIN AND WILLIAM W. RYDER, OF SAME PLACE.

IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. 154,648, dated September 1, 1874; application filed July 11, 1874.

To all whom it may concern:

Be it known that I, OLIVER C. CORNELL, of Sing Sing, in the county of Westchester and State of New York, have invented a new and valuable Improvement in Anti-Rattler for Shaft-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 drawing is a representation of a plan view of my anti-rattler for shaft-couplings. Fig. 2 is a sectional view of the same. Fig. 3 is a detail view of the same.

This invention has relation to means for preventing thill-couplings from working loose and rattling; and it consists in the employment of an india-rubber block, partly inclosed by a metal spring, which spring is so shaped that it will hug the eye of the thill-iron and hold the rubber block in its place, at the same time preventing the rubber from undue wear, as will be more fully explained hereinafter.

In the annexed drawings, A designates an axle; B, the embracing portion of a clip, and B' the clip-bar or yoke. C is the thill-iron; *g*, its eye, and *c* the bolt which connects the thill to the ears *a a* of the clip. These parts are all constructed in the usual well-known manner. S designates an india-rubber block, presenting a front concave surface and a back flat surface. This block S is inclosed by a metal spring-shield, D, which is shaped somewhat like the capital letter A. One limb, *d*, of the spring is flat, and rests upon the front

end of the yoke B', and bears against the front side of the clip. The other limb, *d'*, is curved, and of such length as to extend well beneath the eye *g* of the thill-iron C, as shown in Fig. 2.

The spring D serves two purposes: it affords a durable and smooth metallic surface, against which the eye of the thill-iron plays freely, and it also securely holds the rubber block S in place by reason of the front limb, *d'*, hooking under the eye *g*. The two springs combined, when compressed between the eye *g* and the clip, prevent rattling, and also prevent the casual detachment of the bolt *c*.

I am aware that a rubber block partly inclosed by a guard and secured by means of a bolt to a detached clip-bar, as shown in Letters Patent No. 64,219, dated April 30, 1867, is not new.

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

The combination of the eye *g*, the thill-iron C, the yoke B', the clip B, the metallic spring-shield D, inclosing the india-rubber cushion S, having one end, *d*, resting upon the front end of the yoke B', and bearing against the front side of the clip B, and the other end, *d'*, curved and extending beneath the eye *g* of the thill-iron C, as shown and described.

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

OLIVER C. CORNELL.

Witnesses:

ISAAC B. NOXON,
WILLIAM W. RYDER.