(Model.)

C. N. SMITH & T. MURPHY

THILL COUPLING.

No. 260,248 Patented June 27, 1882.

Fig. 1.

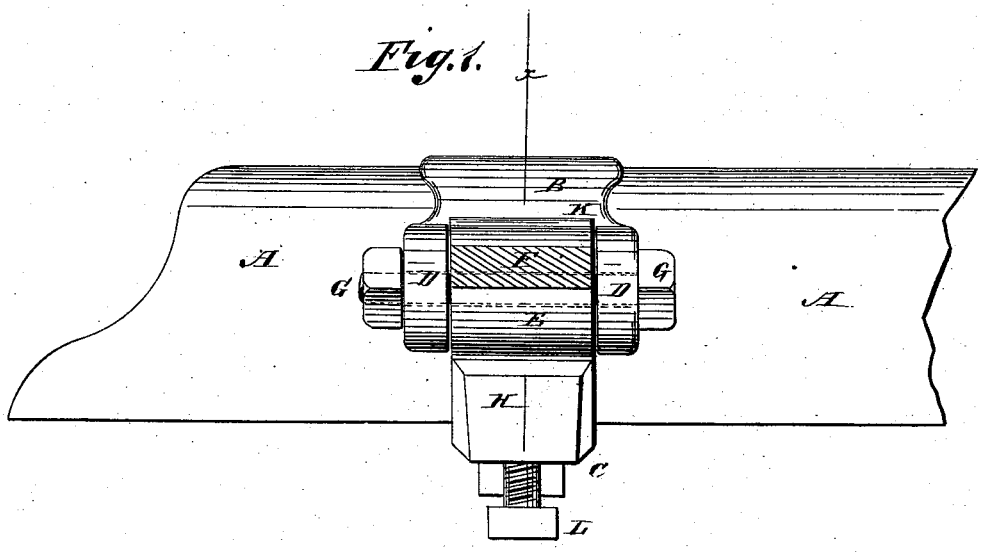
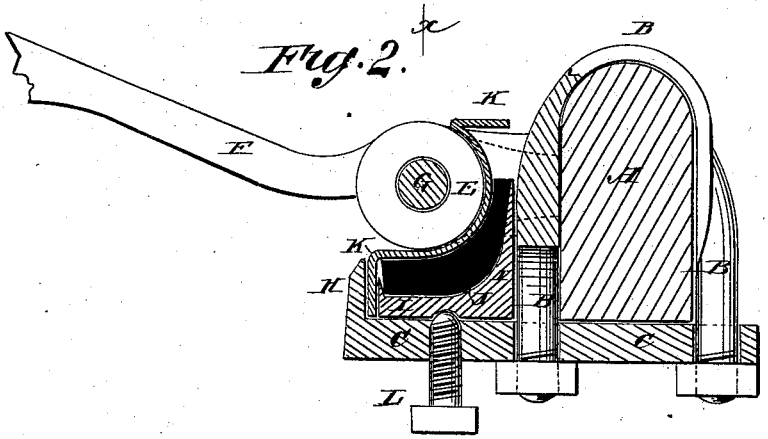


Fig. 2.



WITNESSES:

Francis M. Ardle

L. Sedgwick

INVENTOR:

C. N. Smith

T. Murphy

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

CHARLES N. SMITH AND TIM MURPHY, OF DANVILLE, KENTUCKY.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 260,248, dated June 27, 1882.

Application filed November 3, 1881. (Model.)

To all whom it may concern:

Be it known that we, CHARLES N. SMITH and TIM MURPHY, of Danville, Boyle county, Kentucky, have invented a new and useful Improvement in Thill-Couplings, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a front elevation of our improvement, the thill-iron being shown in cross-section; and Fig. 2 is a sectional side elevation of the same, taken through the line *x x*, Fig. 1.

The object of this invention is to provide convenient and effective means for taking up the wear in thill-couplings and preventing the couplings from rattling.

The invention consists of a novel construction and arrangement of parts, as hereinafter fully described.

A represents the forward axle of a vehicle. B is the bow of an axle-clip, and C is the yoke.

Upon the forward arm of the bow B are formed lugs D, between which is placed the eye E of the thill-iron F, and which are perforated to receive the bolt G, which passes through the eye E and hinges the thills or tongue to the axle. The yoke C of the axle-clip is extended forward, and has an upwardly-projecting flange, H, formed upon its forward end, to form a seat for the wedge-block I and the rubber packing J. The block I, provided with two upwardly-projecting flanges of unequal length, is fitted into the space between the bow B, the yoke C, and the flange H. The flange part of the block I that projects upward between the bow B and the thill-iron eye E is tapered or made wedge-shaped, and its inner surface is concaved, as shown in Fig. 2, to correspond with the curvature of the thill-iron eye E.

Between the wedge-block I and the eye E is placed the rubber block J, the concaved side of which may be faced with a plate, K, of brass or other suitable anti-friction metal. The upper edge of the facing-plate K is bent to the rearward, and rests upon shoulders or a flange formed upon the arm of the bow B. The lower edge of the facing-plate K is bent downward, and is interposed between the flange H and the forward edges of the base of the wedge-block I and the rubber block J, so that the said facing-plate will be held securely in place.

L is a set-screw which passes up through a screw-hole in the projecting forward part of the yoke C, and its forward end rests against the lower side of the base of the wedge-block I. With this construction, by turning up the set-screw L the wedge-block I will be forced upward, pressing the rubber block J against the lower and rear sides of the eye E, or against the facing-plate K when used, so as to take up all the wear, and thus prevent the coupling from rattling. By turning the screw L down the packing will be slackened, so that the bolt G can be easily removed and the thills or tongue detached.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

In a thill-coupling, the combination, with the bow B, the yoke C, provided with the upwardly-projecting flange H, and the set-screw L, of the wedge-block I, having a concave inner surface, and provided with two upwardly-projecting and tapering flanges of unequal length, the rubber block J, and the facing-plate K, having its upper edge bent to the rearward and its lower edge bent down between the flanges of the said yoke and wedge-block, substantially as and for the purpose set forth.

CHARLES N. SMITH.
TIM MURPHY.

Witnesses:
JOHN GRIBBEN,
JAS. W. COOK.