

(No Model.)

W. P. TEED.
THILL COUPLING.

No. 335,398.

Patented Feb. 2, 1886.

Fig. 1.

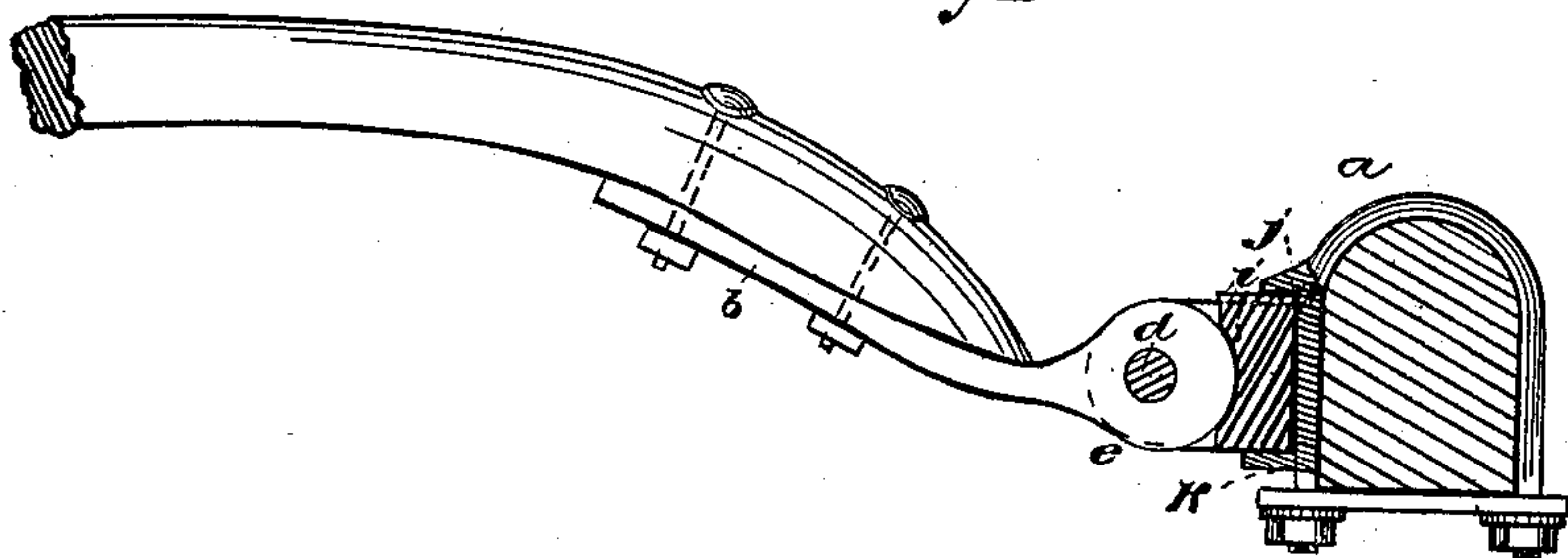


Fig. 2.

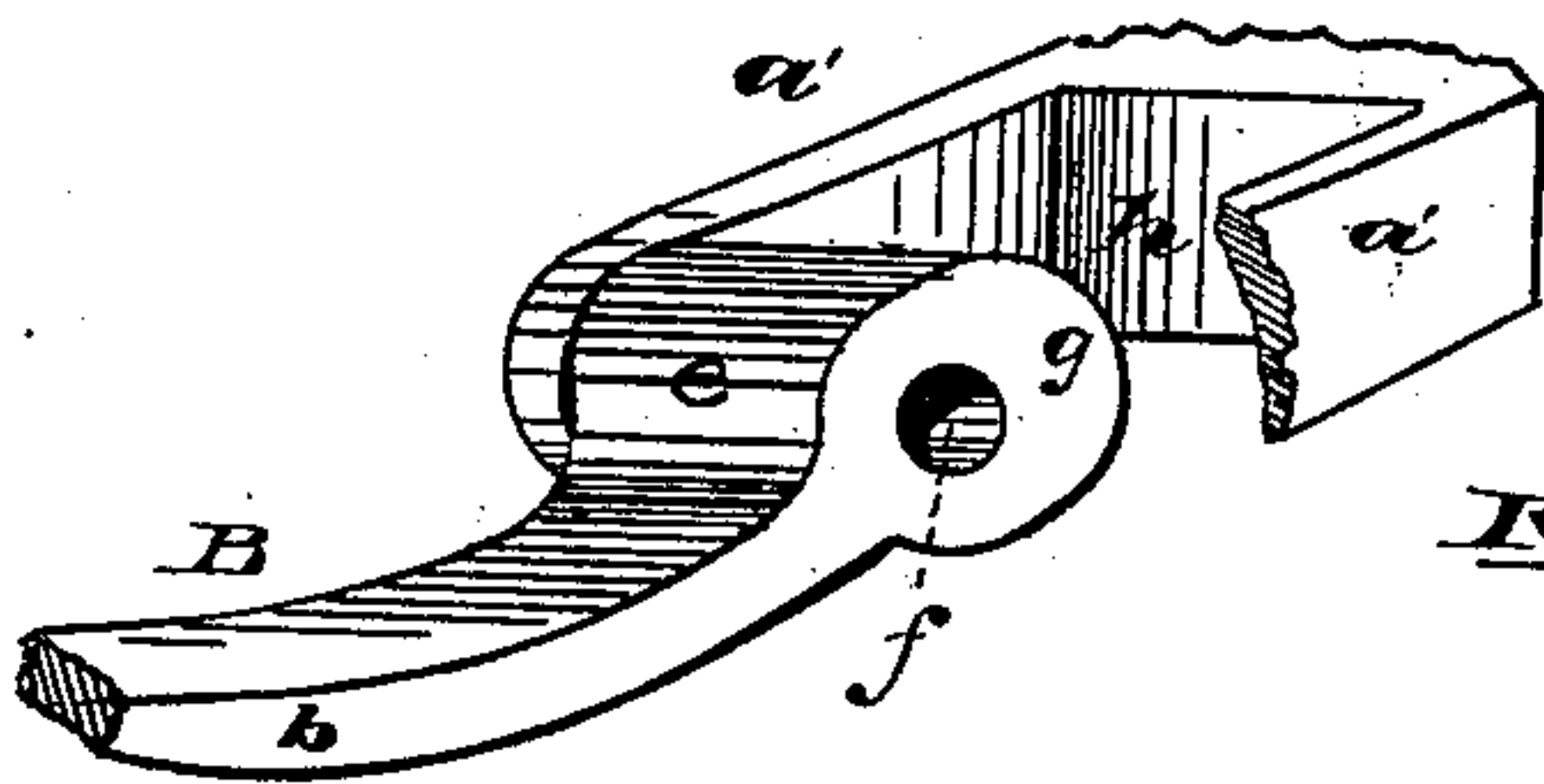
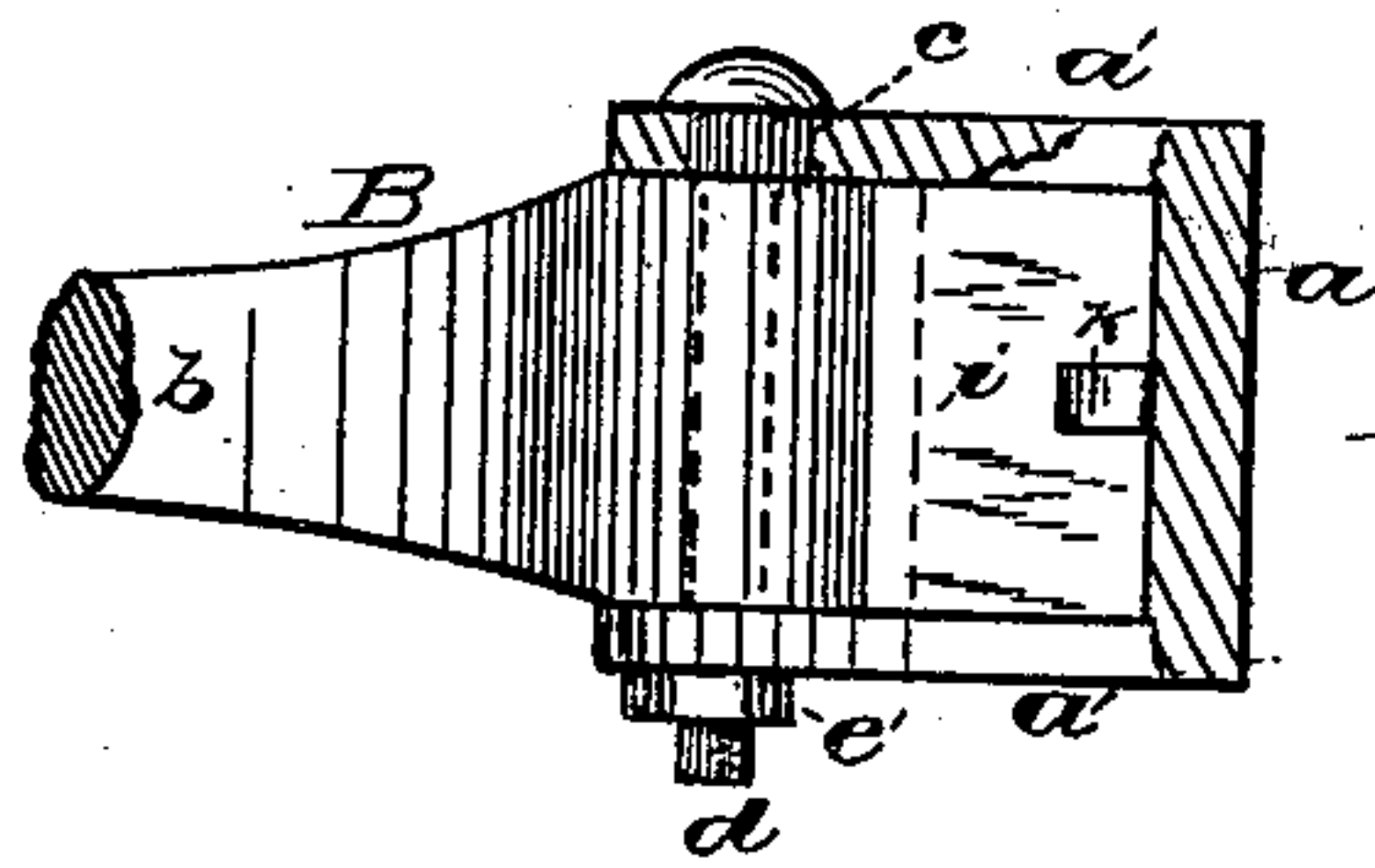


Fig. 3.



Attest:

B. L. McQuilly,
Frank F. Campbell.

Inventor:

William P. Teed,
by Drake & Co.,
Attys.

UNITED STATES PATENT OFFICE.

WILLIAM P. TEED, OF LIVINGSTON, ASSIGNOR OF ONE-HALF TO CHARLES
I. HEDDEN, OF NEWARK, NEW JERSEY.

THILL-COUPLING.

SPECIFICATION forming part of Letters Patent No. 335,398, dated February 2, 1886.

Application filed May 2, 1885. Serial No. 164,160. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. TEED, a citizen of the United States, residing at Livingston, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Jack-Clips; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

The object of this invention is with the greatest simplicity and at a reduced cost of construction to prevent the noise or rattle induced in driving a vehicle; and it consists in the arrangements and combinations of parts, substantially as will be hereinafter set forth, and embodied in the clause of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several figures, Figure 1 is a side elevation, partly in section; Fig. 2, a perspective view of portions of the thill-iron and clip; and Fig. 3 is a plan of the device.

In said drawings, *a* indicates the clip, having jaws or ears *a' a'*, with bolt-holes or perforations *c* at or near the ends thereof to receive the pivotal bolt *d*, which latter is preferably secured in the said perforated ears by a nut, *e'*.

B indicates the thill or shaft iron, having its head *e* provided with a bolt-hole, *f*, to receive the bolt *d*, and be by it held between the ears *a' a'*. Said head is provided with an eccentric projection or cam, *g*, at the side opposite or approximately opposite the shaft-straps *b* of the shaft-iron. Back of said head in the clip is formed a chamber or opening, *h*, and into this is forced a rubber block, *i*, which is held at the top and bottom by suitable lugs or projections, *j k*, which resist the tendency of the eccentric to throw the rubber from po-

sition. Said rubber bears against the head, and thus overcomes or takes up any looseness or play of the parts on one another, deadening any noise or rattle that would otherwise be occasioned in driving. A spring of any kind may be employed in lieu of the rubber. When the shafts are resting on the ground, or are raised to a position approaching a vertical line, the tension is removed from the rubber or spring, which is allowed to expand to its normal condition, by which means the said block or spring will not readily lose its elasticity.

I am aware that in United States Patent No. 204,491 of June 4, 1878, a clip is shown on which is formed, back of the pivotal end of the thill-iron in the chamber for the rubber block, a central projection for holding said rubber in place, the said projection sinking into said rubber at a point opposite the bearing for the eccentric, and thus reducing the thickness of the rubber at that point.

In my improvement there are two projections provided, one at the top and the other at or near the bottom of the rubber, so that a greater depth of rubber and increased elasticity is attained or secured.

What I claim as new is—

In combination, the clip having ears *a' a'* and lugs or projections *j k* at the top and bottom of the rubber block, said rubber block placed between said ears and projections and a thill-iron having an eccentric head bearing against said rubber, all said parts being arranged and operating substantially as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of April, 1885.

WM. P. TEED.

Witnesses:

OLIVER DRAKE,
OSCAR A. MICHEL.