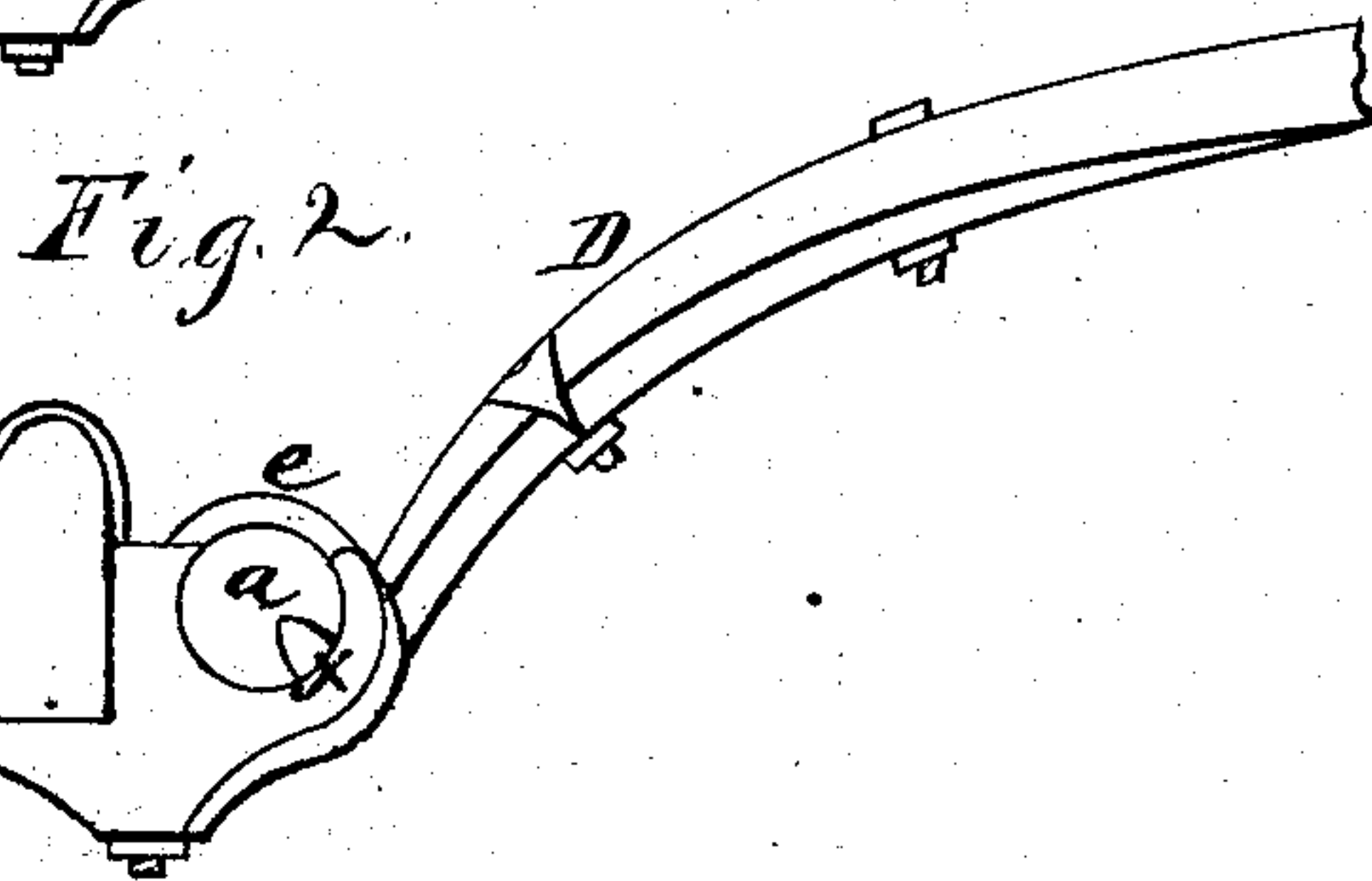
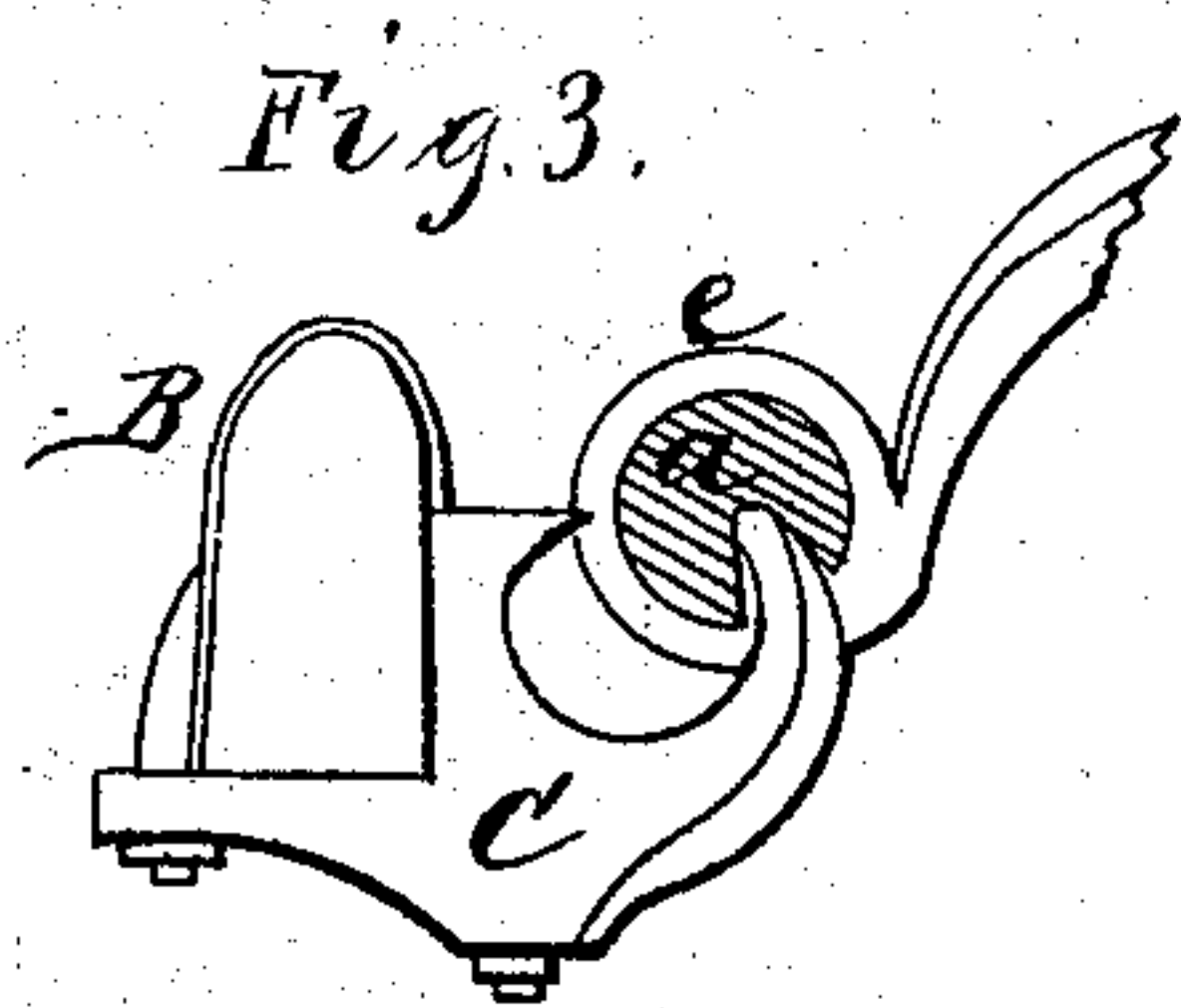
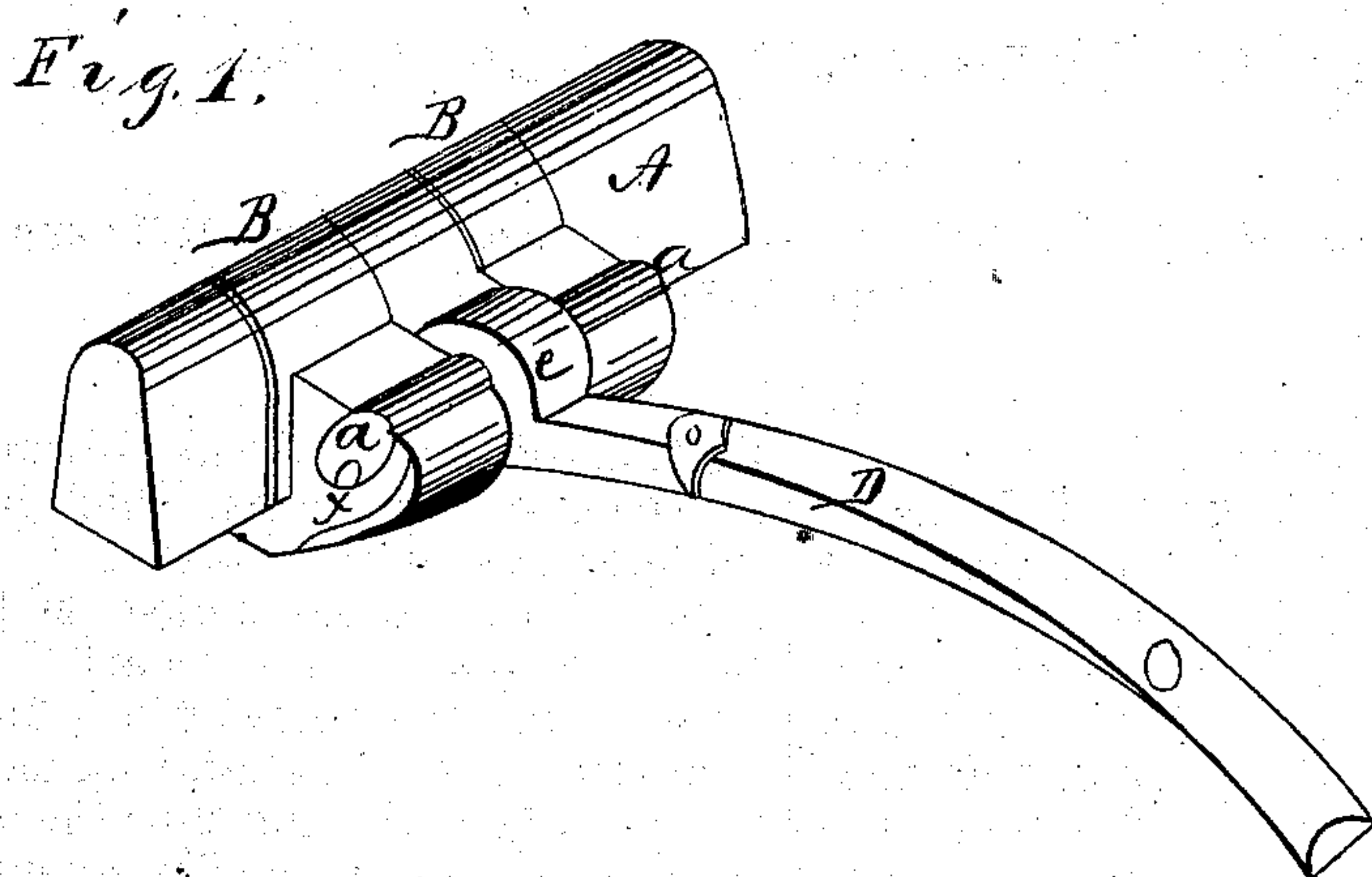


H. TYLER.
Thill-Coupling.

No. 159,480.

Patented Feb. 2, 1875.



WITNESSES

G. M. Bart.
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UNITED STATES PATENT OFFICE.

HIRAM TYLER, OF GENESEO, NEW YORK, ASSIGNOR OF ONE-HALF HIS
RIGHT TO PELL TEED, OF SAME PLACE.

IMPROVEMENT IN THILL-COUPPLINGS.

Specification forming part of Letters Patent No. **159,480**, dated February 2, 1875; application filed
June 18, 1874.

To all whom it may concern :

Be it known that I, H. TYLER, of Geneseo, in the county of Livingston and in the State of New York, have invented certain new and useful Improvements in Thill-Coupling; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of the clip and shaft-iron, whereby I am enabled to easily and quickly connect the shafts and pole to a vehicle, as will be set forth.

In the annexed drawings, Figure 1 represents a perspective view of my clip, and Figs. 2 and 3 end views of same.

In the figures, A represents the axle of the vehicle, upon which the clip is secured. B B represent the strap portions of the clips, which have their lower ends provided with screw-threads, and being formed as usual. The lower portion, C, of the clip extends up in front of the axle, and is provided with a journal-bearing for the shaft-iron, the upper portion of the bearing being open, but the opening being less than the diameter of the arm or trunnion on the shaft-iron. D represents the shaft-iron, the rear end of which has a central enlargement, *e*, while on each side of said enlargement is formed a round arm, *a a*. The enlargement fits neatly between the two hooked

portions of the clips, and prevents any lateral movement of the arms, which lie in the journal-bearings of the parts C C. These arms have a longitudinal groove in them, as seen at *x x*. A portion of the part C forms a hook, as seen, and the point of this hook enters the groove *x x* when the shaft-iron has its outer end raised sufficiently, and thus the arm is enabled to pass through a smaller opening than that of its diameter, in order to drop into the journal-bearing.

Of course when the shaft-iron is lowered the arm cannot be moved out of the opening through which it entered.

There should either be two single clips or a double one, so as to catch the two arms of the shaft-iron.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the two hooked portions C C of the clips with the shaft-iron D, having central enlargement *e* and side arms, *a a*, with longitudinal grooves *x x*, all substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of June, 1874.

HIRAM TYLER.

Witnesses:

A. N. MARR,

E. G. MAITLAND.