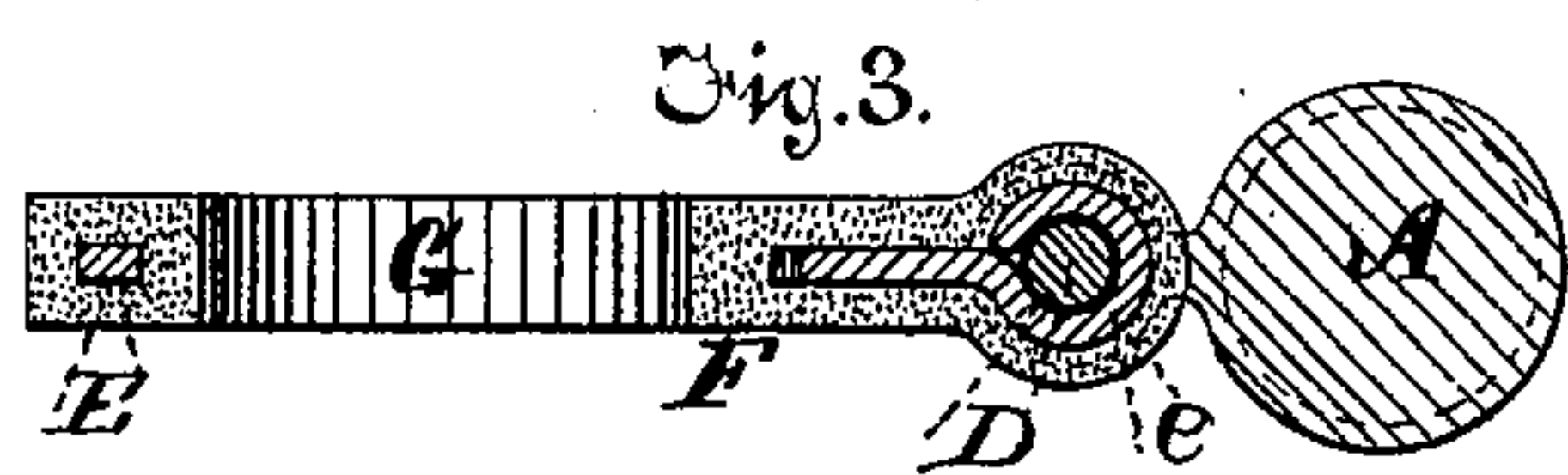
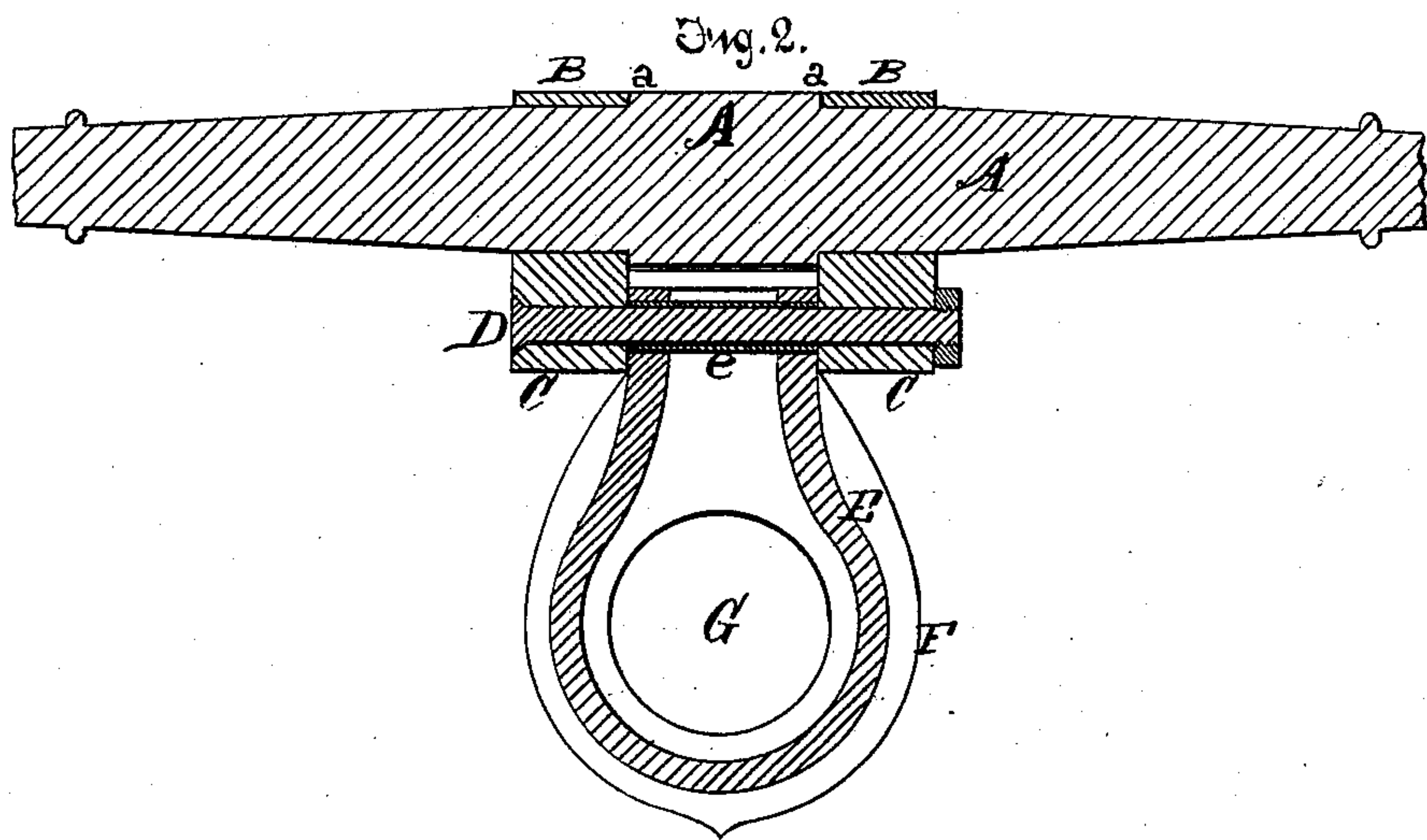
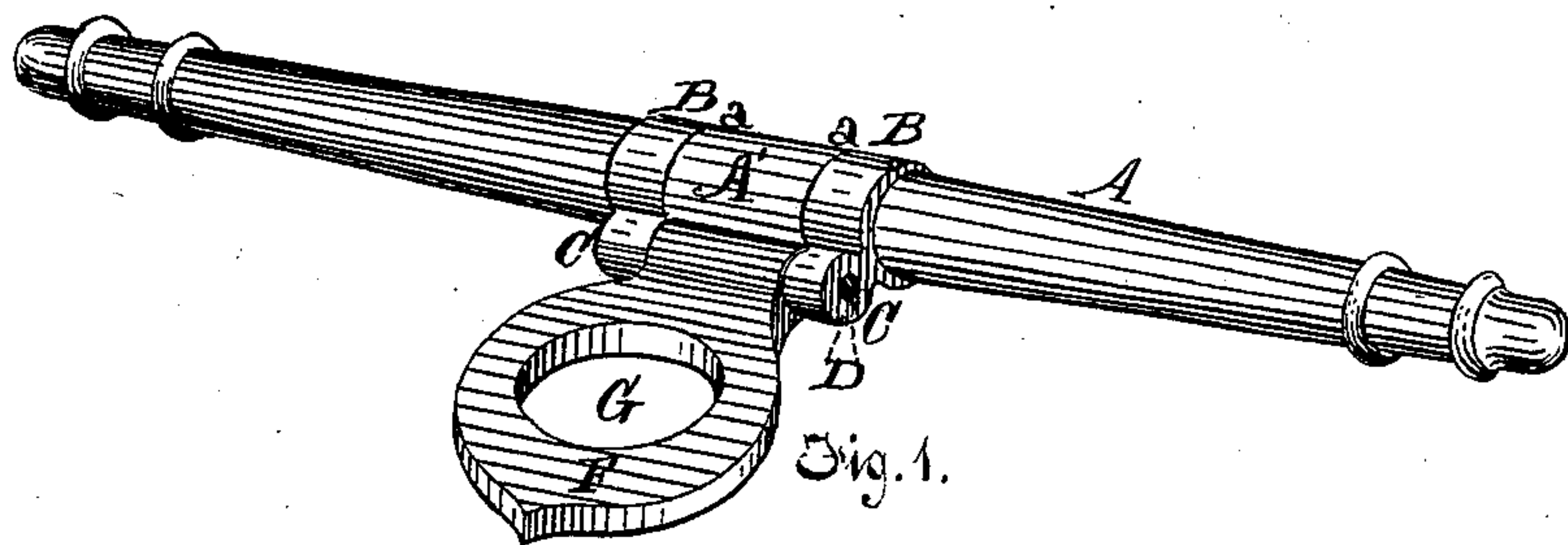


C. ECKER.
Neck-Yoke Coupling.

No. 208,012.

Patented Sept. 17, 1878.



Witnesses: { Henry Safford
William F. Selkirk

Charles Ecker
by his atty & Alex Selkirk
Inventor

UNITED STATES PATENT OFFICE.

CHARLES ECKES, OF WEST SAND LAKE, NEW YORK.

IMPROVEMENT IN NECK-YOKE COUPLINGS.

Specification forming part of Letters Patent No. **208,012**, dated September 17, 1878; application filed April 12, 1878.

To all whom it may concern:

Be it known that I, CHARLES ECKES, of West Sand Lake, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Couplings for Neck-Yokes, which improvements are fully described in the following specification and accompanying drawings, in which—

Figure 1 represents a perspective view of the coupling applied to a neck-yoke; Fig. 2, a cross-sectional view of the same, and Fig. 3 a sectional elevation.

The object of this invention is to furnish a coupling for neck-yokes and whiffletrees having a flexible joint, with a leather connection, which will readily connect with the pole when used with neck-yokes, and with the double-tree when used with whiffletrees, without liability of rattling.

In the drawings, A represents a neck-yoke to which this invention is applied. B B are thimbles nicely fitting the said neck-yoke at the shoulders *a* of the central section A'. Made with the said thimbles are the eyes C C, each thimble having its own eye. The said eyes are each pierced to receive a draw-bolt, D. E is a draft-link made with the draft-eye *e*, having an extension equal to the distance between shoulders *a a*, as shown in Fig. 3, and pierced with a hole corresponding in size with the draft-bolt D. The said draft-link is covered with leather F, which leather covering is wrapped around both the eye *e* and draft-

ink E, and securely stitched around the edge, and provided with a central opening, G, or its equivalent, adapted to receive the end of the pole.

It will be readily seen that by this invention the neck-yoke is preserved stronger at its middle of length or portion A' than in neck-yokes having a central groove for receiving a strap; also that, by the joint produced by the eyes *e* and C C and draft-bolt D, the neck-yoke may have a free movement without rattling, while the leather covering of the draft-link will not mar or scratch the plated tip of a pole.

It is apparent that this coupling may be used with advantage for coupling whiffletrees to the double-trees of coaches or pleasure-carriages, a slight modification of the form of the draft-link being made to conform with the end of the double-tree employed.

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

The combination, with thimbles B B, having eyes C C made solid with the same, and the draft-bolt D, of the leather-covered draft-link E, provided with the draft-eye *e*, working between eyes C C and around said draft-bolt, substantially as and for the purpose set forth.

CHARLES ECKES.

Witnesses:

ALEX. SELKIRK,

ADELBERT B. LAPPENS.