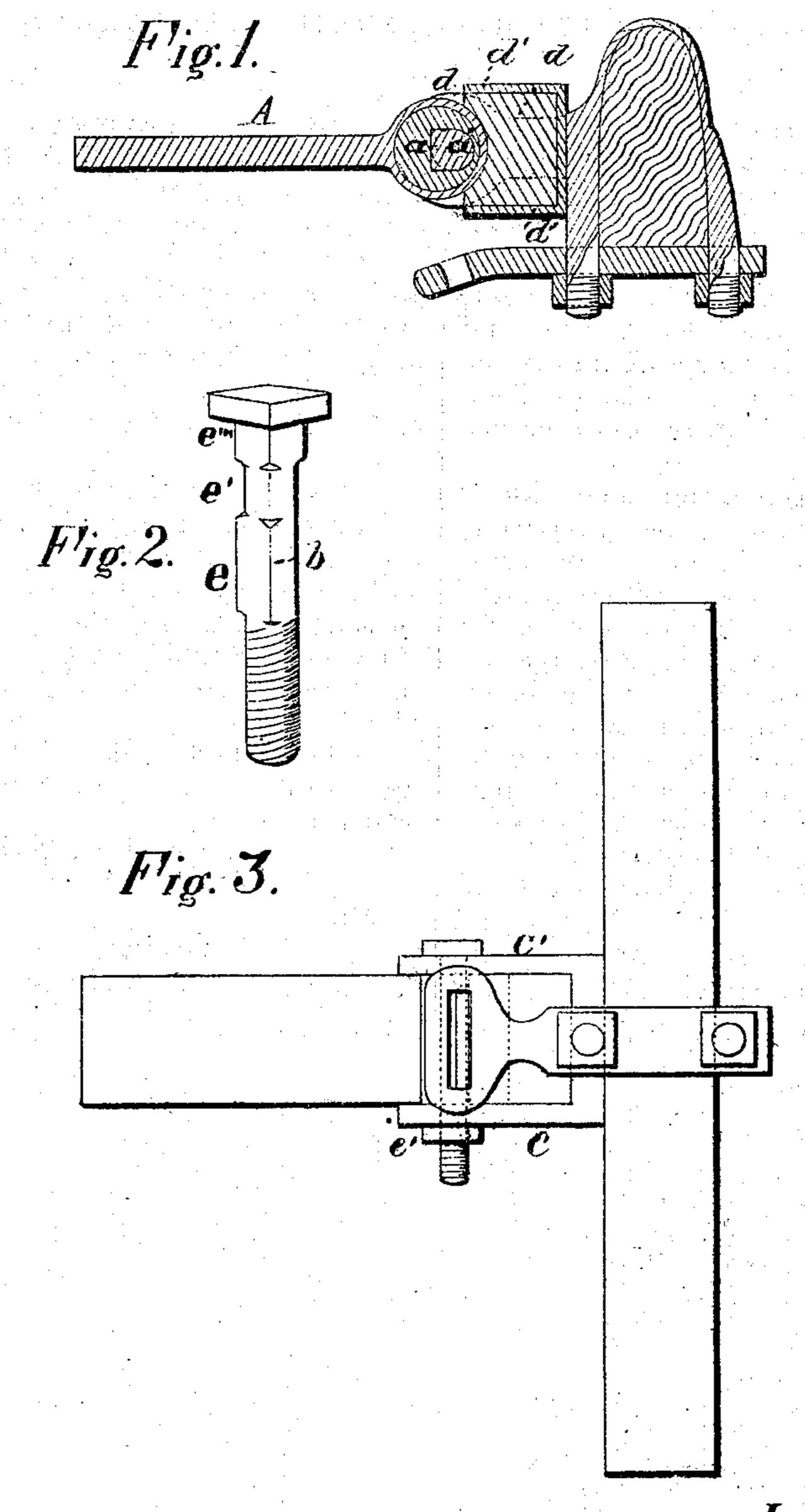
A. O. NELSON.

Improvement in Thill Coupling.

No. 118,383.

Patented Aug. 22, 1871.



Witnesses. Villette Anderson. EH Bates.

A. O. Nelson, Chipman Former & Co, Attys,

UNITED STATES PATENT OFFICE.

ALEXANDER O. NELSON, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN THILL-COUPLINGS.

Specification forming part of Letters Patent No. 118,383, dated August 22, 1871.

To all whom it may concern:

Be it known that I, ALEXANDER O. NELSON, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and valuable Improvement in Thill-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 drawing 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 vertical longitudinal section of my invention. Fig. 2 is a detached view. Fig. 3 is a top view.

This invention has relation to thill-couplings; and it consists in a combination of devices for that purpose; the object being to guard against rattling, by the peculiar use of a rubber block and an eccentric, and to protect the rubber.

The thill-iron A has fitted within its eye an eccentric, a, having an opening, a', for the passage of the connecting-bolt b, both the opening and the bolt having one flat side, so that by turning the bolt the eccentric is turned with it. The rubber block d is fitted to the thill-iron, and for protection within the guard d' and the ears c and c'. The bolt b has a square shoulder

adapted to a square opening in the ear c', to prevent the turning of the bolt and the eccentric when both are in place; but by removing the nut e and driving the bolt back to the neck e' on the bolt, the bolt and eccentric may be turned, and the bolt having its bearings in the ears e and e', the turning of the bolt and the eccentric presses the thill-iron back more or less against the rubber block, and thus rattling is prevented and the wear of the rubber block compensated for.

I claim as my invention—

In a thill-coupling, the combination, with the eccentric a having the opening a' rounded out toward the rubber and flat on the opposite side, of the bolt b having its opposite sides made, respectively, rounded and plane to correspond with the form of said opening, substantially as specified.

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

ALEXANDER O. NELSON.

Witnesses:

W. J. KOWEAN, HENRY O. AUSTIN.