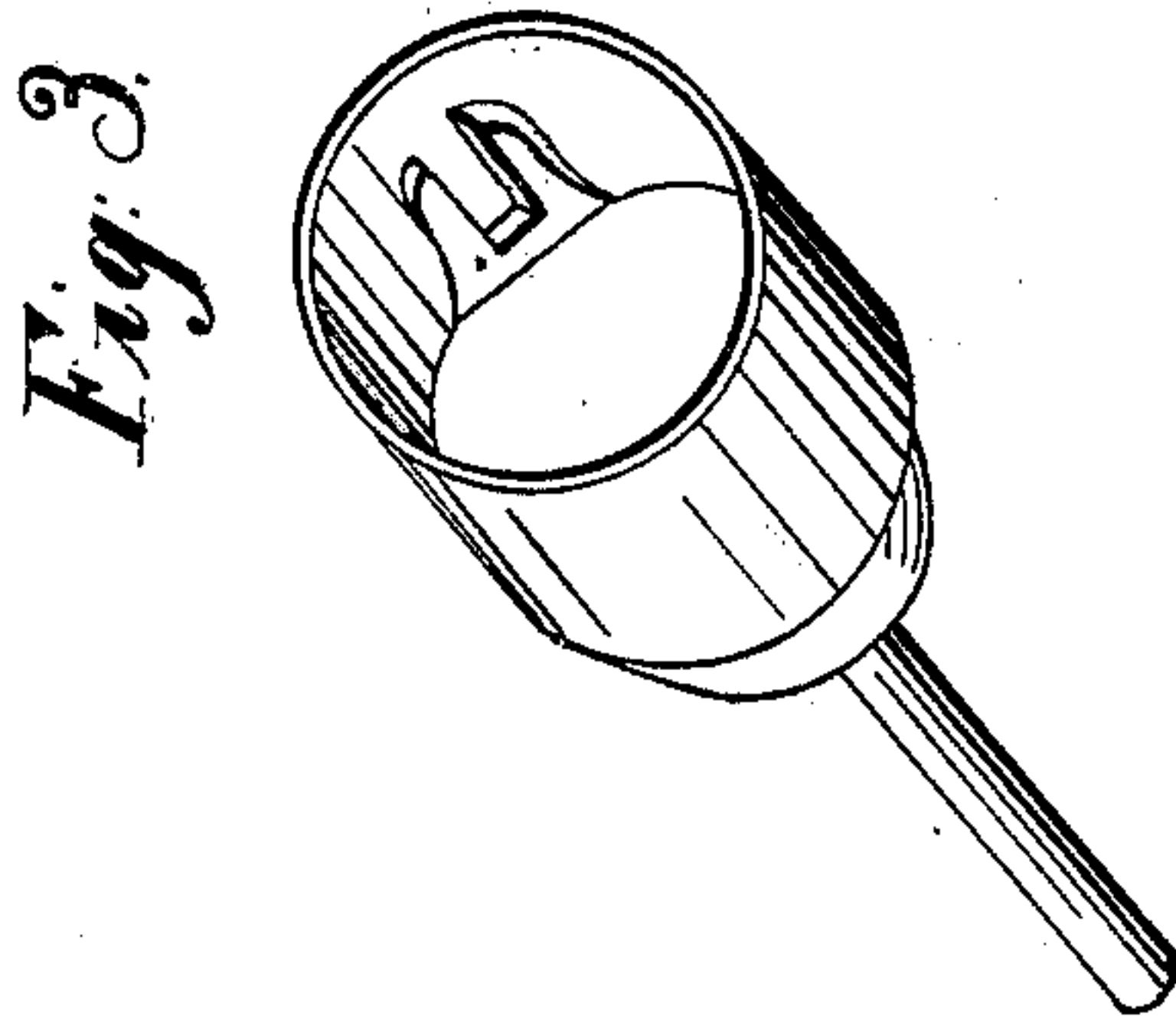
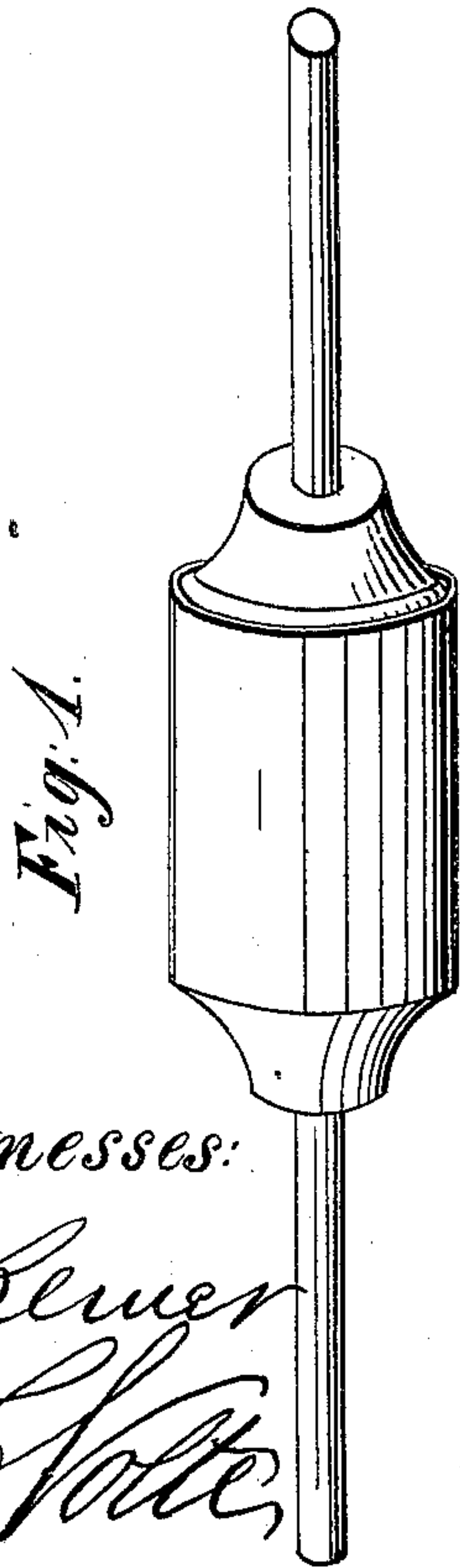
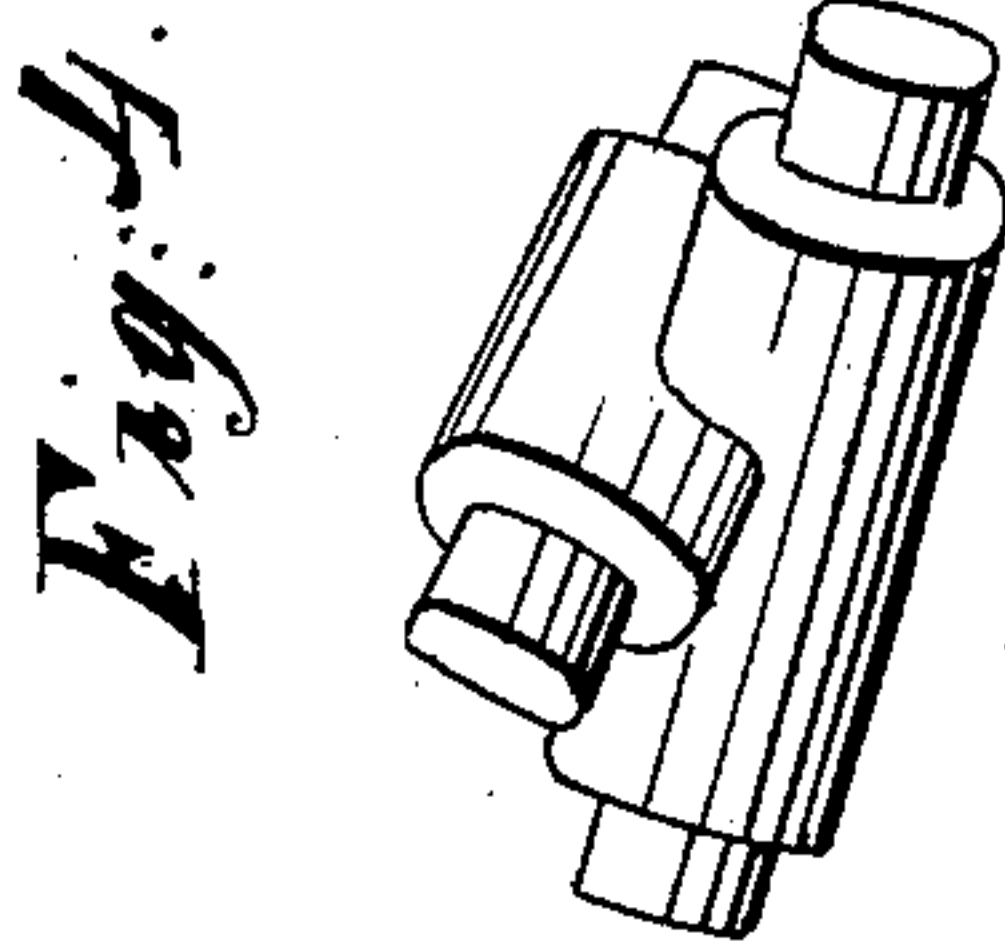
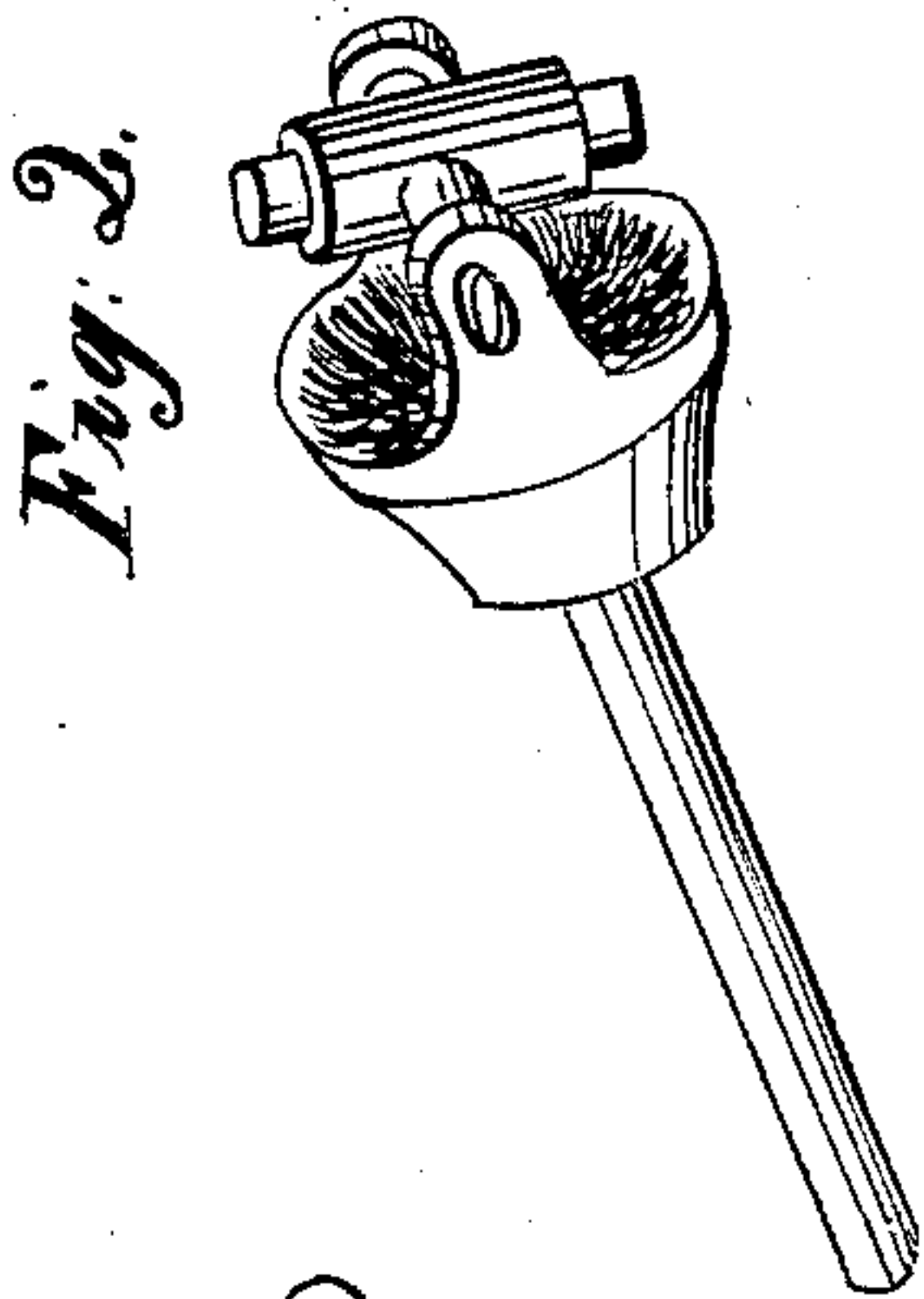


*J. Heuermann,
Universal Joint.*

No 82,117.

Patented Sep. 15, 1868.



*Witnesses:
G. Heuer
J. H. Vetter*

*Inventor:
John Heuermann*

UNITED STATES PATENT OFFICE.

JOHN HEUERMANN, OF DAVENPORT, IOWA.

IMPROVEMENT IN COUPLINGS.

Specification forming part of Letters Patent No. **82,117**, dated September 15, 1868.

To all whom it may concern:

Be it known that I, JOHN HEUERMANN, of Davenport, in the county of Scott and State of Iowa, have invented a new and Improved Coupling; and I do hereby declare that the following is a true and exact description thereof.

The nature of my invention consists in the construction of a coupling, as shown on drawings, connected to and with iron tumbling rods or shafts, the coupling part at end of one tumbling rod or shaft being composed of an iron case, (cylinder in form,) inside of which, on opposite sides, are two slots, extending about two-thirds of the distance from bottom to top, or end of iron case, while at end of the other tumbling rod or shaft is connected a coupling-jaw, through which passes an oval bolt, passing into and through a double cross-socket, (fitted between such coupling-jaw,) into which double cross-socket another oval bolt is permanently fixed, which enters the slots in iron case, connected with the other tumbler rod or shaft, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a

view of coupling-jaw and double cross-socket. Fig. 3 is a view of inside of coupling-case with slots. Fig. 4 is a view of double cross-socket with bolts.

By the construction of slots extending only about two-thirds of the distance from bottom to top or end of iron case, the coupling-jaw has room to play inside of iron case containing slots.

What I claim for my invention, and desire to secure by Letters Patent, is—

1. The arrangement and combination of such coupling as is shown in drawings, and described in the specification.
2. The construction of slots extending about two-thirds of the distance from bottom to top or outer end in coupling-case, as shown on drawings.
3. The construction of openings in double cross-sockets for oval bolts.

Davenport, Iowa, July 8, 1868.

JOHN HEUERMANN.

Witnesses:

GEO. PALMER,
HENRY NOLTE.