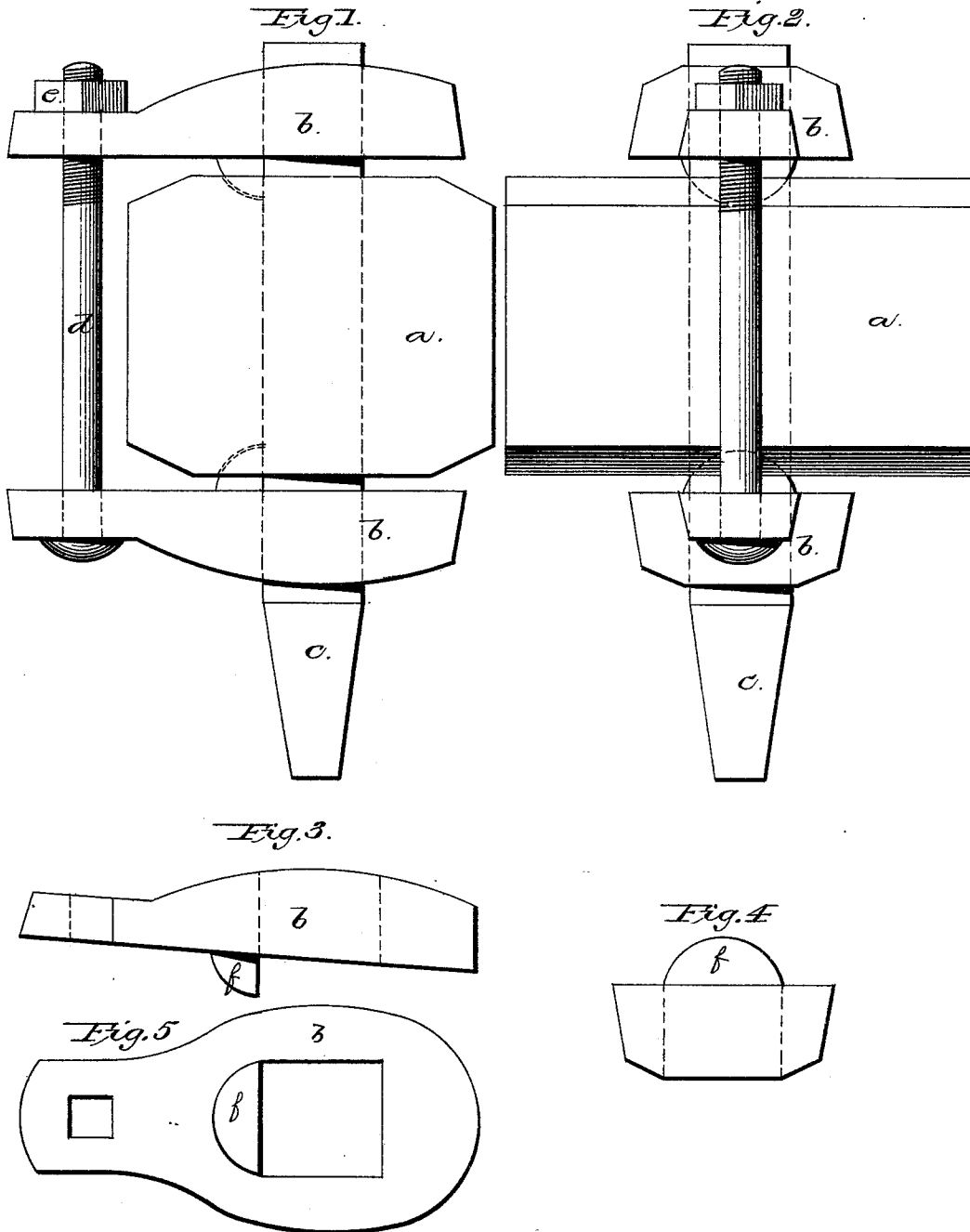


J. GMEINER.

CLASP FOR FASTENING DRAG TEETH.

No. 180,997.

Patented Aug. 15, 1876.



UNITED STATES PATENT OFFICE.

JOSEPH GMEINER, OF DALE, WISCONSIN.

IMPROVEMENT IN CLASPS FOR FASTENING DRAG-TEETH.

Specification forming part of Letters Patent No. **180,997**, dated August 15, 1876; application filed September 17, 1875.

To all whom it may concern:

Be it known that I, JOSEPH GMEINER, of Dale, in the county of Outagamie and State of Wisconsin, have invented a new and useful Improvement in Clasps for Fastening Drag-Teeth, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

My invention relates to a new mode of fastening drag-teeth, so that they can be readily and easily removed or changed to the other side, forward, or taken out to be sharpened, reference being had to the drawing, and to the letters of reference marked thereon.

a represents the beam in the harrow; *b*, the clasp; *c*, the tooth; *d*, the bolt through the end of the clasp; *e*, the nuts on said bolt, and *f* the lugs on the inner side of the clasps. The hole in the beam is made large enough so that the tooth will slip in easy, and then there is cut out, on the upper and under side of said beam, in the hole for the admission of the tooth, a little nick, to admit the legs on the inner side of said clasps. The said clasps are slipped over said tooth, and the bolt put