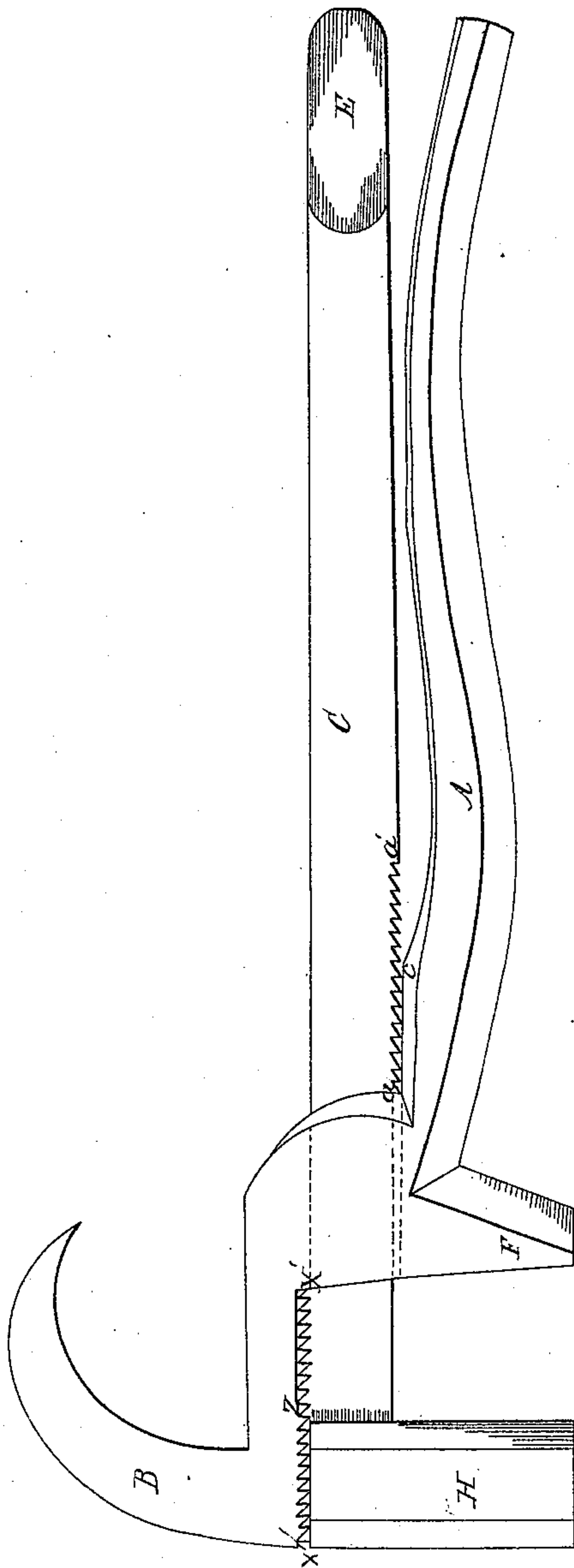


C. Ball.
Wrench.

N^o 36,389.

Patented Sep. 9, 1862.



Witnesses;
h. C. M. Alexander
Charles Alexander
G. A. Smith

Inventor;
C. Ball

UNITED STATES PATENT OFFICE.

CORTLAND BALL, OF AUGUSTA, MICHIGAN.

IMPROVEMENT IN HAMMERS.

Specification forming part of Letters Patent No. 36,389, dated September 9, 1862.

To all whom it may concern:

Be it known that I, CORTLAND BALL, of Augusta, in the county of Kalamazoo and State of Michigan, have invented certain new and useful Improvements in Tools; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A and C represent the two parts of the tool, which are made of any suitable metal and in the form represented. The piece A is provided with a claw, B, a jaw, F, and with rack-teeth from *z* to *x'* and from *a* to *c*. That portion of the jaw F near the claw or piece to which the claw is connected is provided with an opening in the direction of the length of piece A, through which opening the piece C is allowed to pass. This opening is made large enough to allow the piece C free

play to work backward and forward in it. The piece C, it will be seen, is provided with a jaw, H, which also forms a hammer, and at its other end it is provided with a screw-driver, E. The piece C has rack-teeth on it, as seen, from *a* to *a'* and from *x* to *x'*, and these rack-teeth correspond with those on piece A, so that when the two handles are pressed together the parts cannot slip, and answer for a wrench. The part C may be drawn out and used either as a screw-driver or as a hammer.

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

The within-described tool as an article of manufacture, constructed and used as and for the purpose herein specified.

CORTLAND BALL.

Witnesses:

J. RAYNER,
J. W. LANE.