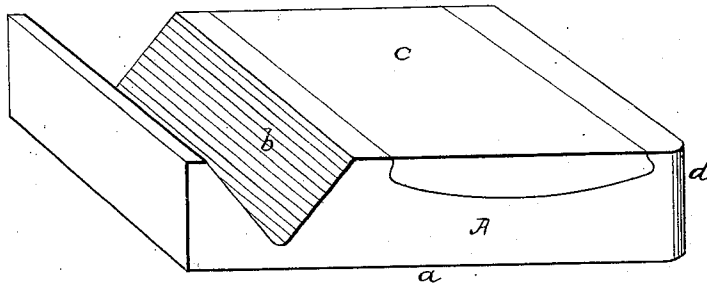


J. THORNTON & E. G. LATTA.

Bench-Irons for Harness Makers .

No. 142,967.

Patented September 16, 1873.



Attest:
Thos. Jewell
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Inventors:
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UNITED STATES PATENT OFFICE.

JAMES THORNTON, OF GENESSEE, AND EMMIT G. LATTA, OF FRIENDSHIP,
NEW YORK.

IMPROVEMENT IN BENCH-IRONS FOR HARNESS-MAKERS.

Specification forming part of Letters Patent No. 142,967, dated September 16, 1873; application filed July 21, 1873.

To all whom it may concern:

Be it known that we, JAMES THORNTON, of Genessee, in the county of Allegany and State of New York, and EMMIT G. LATTA, of Friendship, in the same county and State, have invented an Improved Bench-Iron for Harness-Makers' use, of which the following is a specification:

It has been customary for harness-makers to have a bench-iron for use in riveting, pounding up loops, &c., and for this purpose old pieces of iron, flat on one side, have generally been employed. Another tool or implement in use is a "raising-board," made of wood, with grooves in the side, sometimes half-round and sometimes V-shaped, in cross-section increasing in width from one end to the other, according to the taste or design of the workman. To place under the leather while using the punch, a block of lead or hard wood has been most generally used. The object of this invention is to produce an implement which will serve as bench-iron, raising-board, punching-block, and slicker; and to this end the invention consists in a block of iron, flat on one side, with a groove or grooves in the opposite face, a partial filling of soft metal, and a rounded corner, all substantially as hereinafter more fully described.

In the drawing, our invention is illustrated by a perspective view.

The letter A represents a block of iron of any suitable size and shape, and with a flat surface, *a*, which is the under side in the drawing. This is to serve as the ordinary bench-iron, and is used in riveting and pounding up.

In one side of the opposite face of the block is formed a groove, *b*, of the form shown in the drawing, or of other desired shape. The bench-iron is now also capable of use as a raising-board. The punching-surface consists of soft metal *c*, as lead, cast in a cavity formed in the face of the block, said cavity being of dovetail or other suitable form to retain the filling. One or more of the corners of the block A are rounded off, as at *d*, whereby the slicking element is added to the implement.

The size and shape of this improved bench-iron may be of course varied; and in some cases it may be found useful to leave out the punching filling and utilize the space it occupies for grooves of different sizes, for raising straps in the center.

It may be observed that this improved iron need not be larger than those commonly used, although it takes the place of several separate devices; and can be made at a nominal cost probably exceeding but slightly that of either of the several implements as heretofore made.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The improved bench-iron herein described, for the purposes specified.

To the above specification of our improvements in bench-irons we have signed our names this 4th day of February, 1873.

JAMES THORNTON.
EMMIT G. LATTA.

Witnesses:

JOHN J. S. LEE,
BENTON C. RUDE,