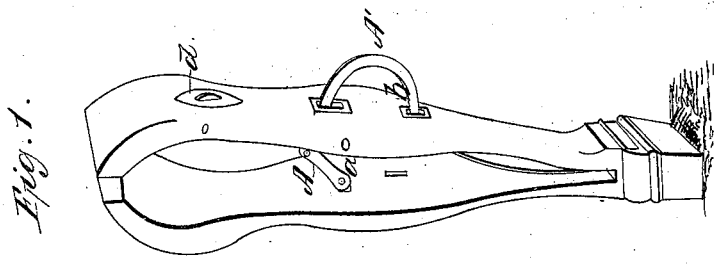
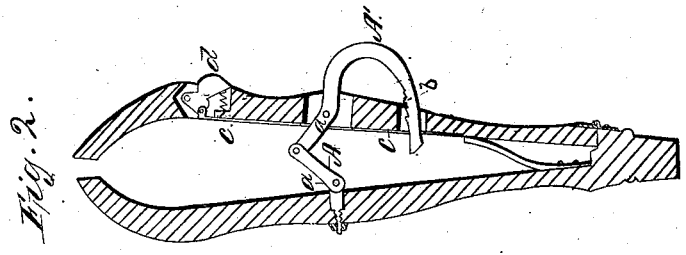


R. Emans,
Shoemakers' Tool,
No. 420, *Patented Oct. 6, 1837.*



UNITED STATES PATENT OFFICE.

RICHARD EMANS, OF MANSFIELD, NEW JERSEY.

MODE OF CONSTRUCTING CLAMPS USED BY SHOEMAKERS, HARNESS-MAKERS, AND OTHERS FOR HOLDING LEATHER.

Specification of Letters Patent No. 420, dated October 6, 1837.

To all whom it may concern:

Be it known that I, RICHARD EMANS, of Mansfield, in the county of Warren and State of New Jersey, have invented an improvement in the manner of constructing clamps used by shoemakers, harness-makers, and others in sewing and stitching leather; and I do hereby declare that the following is a full and exact description thereof.

In the accompanying drawing the clamp is represented as used by shoemakers without a bench or stool, but to be held between the knees; its sides or cheeks are hinged, or otherwise connected together in the usual manner; the object in view being to retain these clamps, with the leather between their jaws, by means of the appendages to be described, without the necessity of embracing it forcibly between the knees, or holding it by any other muscular pressure.

Figure 1 shows the clamp in perspective; Fig. 2, a section thereof down the middle.

A, A', is a compound joint by which the jaws may be held in any required position; the joint being attached to them by pins *a, a*; it will be seen from the drawing that by opening and closing the jaws, the notched part *b*, of the bow A', will work in and out through a mortise in the hinged jaw, pre-

pared for that purpose. Within this jaw there is a sliding plate *c, c*, which may be raised by the thumb piece *d*, so as to relieve it from the notches of the part *b*, of the curved joint piece; the thumb piece is forced out by a spiral or other spring; the drawing showing the whole action of this and other parts.

Instead of the compound joint A, A', a piece of iron, having suitable notches on it, may be fixed to one jaw, and pass through a mortise in the other, a sliding piece catching into the notches. The clamp may also be used on a bench or stool, like those employed by harness makers, &c., and will be found much more convenient than those which are acted upon by a screw, or by a treadle.

I claim as my invention—

The modes herein described of closing, holding, and liberating, the clamps used by shoemakers and others, by having a notched piece of metal, or joint piece, fastened to one jaw, and sliding through the other, with a sliding catch and a thumb piece, operating substantially in the way above shown.

RICHARD EMANS.

Witnesses:

W. THOMPSON,
JAMES G. FARRE.