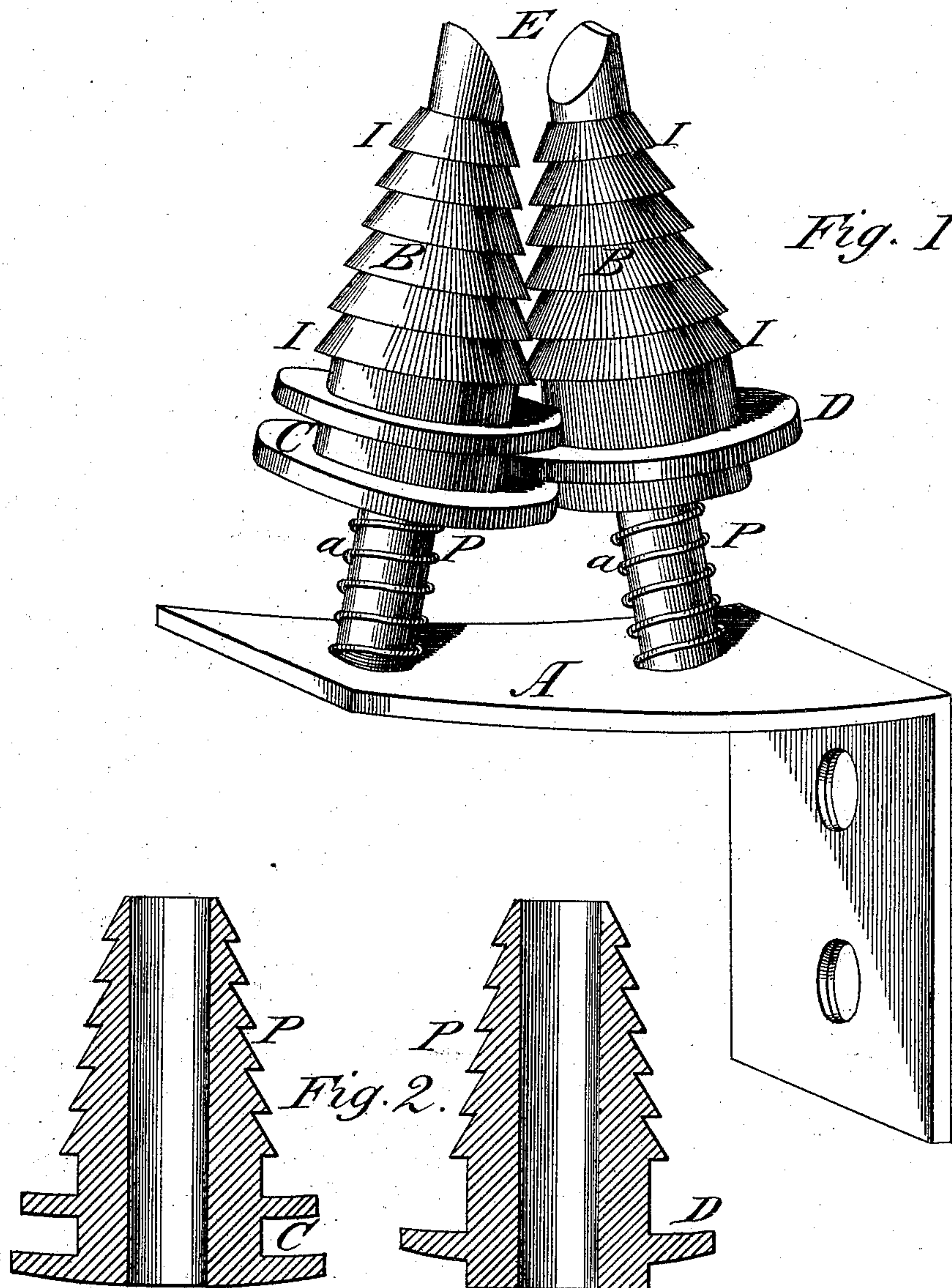


W. P. WOLFINGTON.  
Harness-Cutter's Vise.

No. 209,438.

Patented Oct. 29, 1878.



Attest:

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# UNITED STATES PATENT OFFICE.

WILLIAM P. WOLFINGTON, OF LOUISVILLE, KENTUCKY.

## IMPROVEMENT IN HARNESS-CUTTERS' VISES.

Specification forming part of Letters Patent No. **209,438**, dated October 29, 1878; application filed March 25, 1878.

*To all whom it may concern:*

Be it known that I, WILLIAM P. WOLFINGTON, of Louisville, Kentucky, have invented a Harness-Cutter's Vise, of which the following is a specification:

The object of my invention is to provide for harness-cutters a vise to hold a side of leather while it is being cut into straps.

The nature of this invention consists in making two cone-shaped rollers to roll and slide upon two pins that converge from a standard, the pins being surrounded with coil-springs to keep them at the ends or apex, and the rollers having upon the small ends teeth to catch the leather and upon the large ends, respectively, a flange and a groove to interlock each other, so that their movements are simultaneous.

By reference to the accompanying drawings, in which Figure 2 illustrates the manner in which the rollers are made, and Fig. 1 is a perspective view of the vise complete, it will be seen that A is a standard, from which two pins, P P, converge nearly together at their ends, one of them being screwed into the standard in order to get the rollers off and on when desired. B B are the rollers. Upon the large ends they have, respectively, a deep groove, C, and a flange, D, and are capped toward the cone end, that being necessary because of the angle at which the pins are set, the flange meshing into the groove deep enough to engage each other at all points. The cone ends have teeth I I turned upon their surfaces in the manner of saw or ratchet teeth, and the teeth of the two cones are kept opposite to each other by the interlocking flange and groove, this position of the teeth with respect to each other causing them to take the surest hold on the leather. Coil-springs surround the pins, forcing the rollers out to the ends, where they come in contact with each other at the largest part of the cones, the other teeth graduating wider apart, so that a thick piece of leather is more readily caught near the end, while a thin piece must be pushed farther back.

The operation of this invention is readily seen. The end of the side of leather is pushed into the vise through the open end E, and the

cones are forced back until they open sufficiently to receive the leather between them. When, then, the leather is drawn upon by the gage-knife the vise closes upon it, and holds it securely. As the straps are cut off the side of leather is easily moved laterally by rolling between the cones, and may be entirely removed in that way or by forcing back the cones with the hand.

My invention differs from all other kinds of vises, pinchers, and the like, which have jaws to gripe and teeth to hold, in this, that the teeth are expressly set just opposite to each other instead of meshing in between each other, as is the case in other devices, which would be inoperative or entirely too uncertain in my invention, and that the greater part of the teeth do not come in contact with each other at all when the vise is closed, as is the case in other devices, but have a gradual divaricating separation, so as to leave the opening E, by reason of which the vise does not have to be opened with the hand in order to put anything in it, as is the case in other devices, it being only necessary to thrust in anything desired to be held.

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

1. In a vise for harness-cutting and similar uses, the combination of the standard A, pins or axes P P, coil-springs *a a*, and serrated conical rollers B B, substantially as herein shown and described.

2. In a vise for harness-cutting and similar uses, the serrated conical rollers, provided with interlocking devices D C, substantially as and for the purpose shown and described.

3. In a vise for harness-cutting and similar uses, the interlocking rollers or jaws, to open and close by their sliding back and forward in converging guides, and arranged with their teeth in opposite and gradual divaricating positions, substantially as and for the purpose herein shown and described.

WILLIAM P. WOLFINGTON.

Witnesses:

ANTY. DOHN,  
JOHN GALVIN.