

(No Model.)

P. H. ELWELL.
ADJUSTABLE NOTCHING CUTTER.

No. 245,468.

Patented Aug. 9, 1881.

Fig. 1.

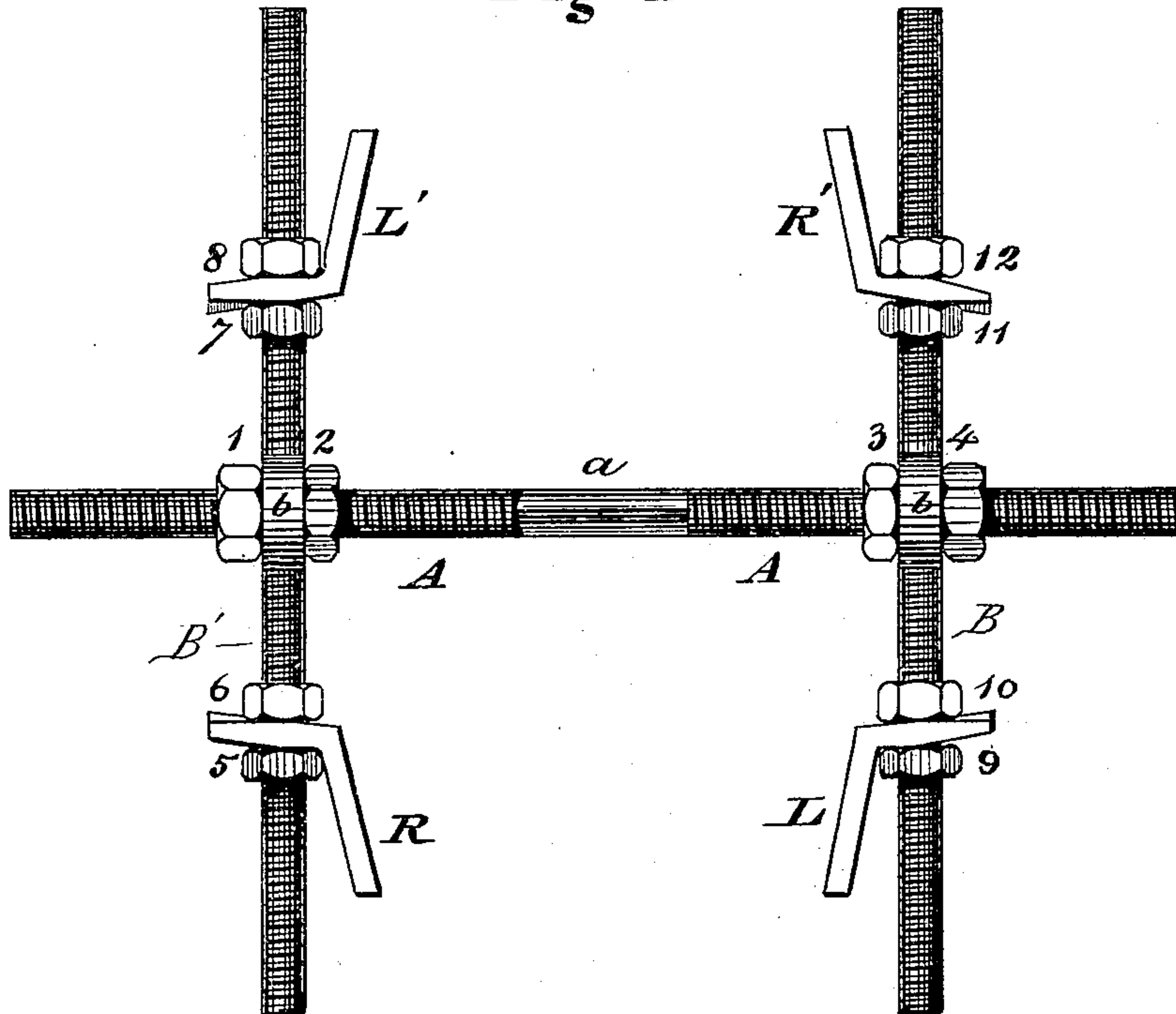
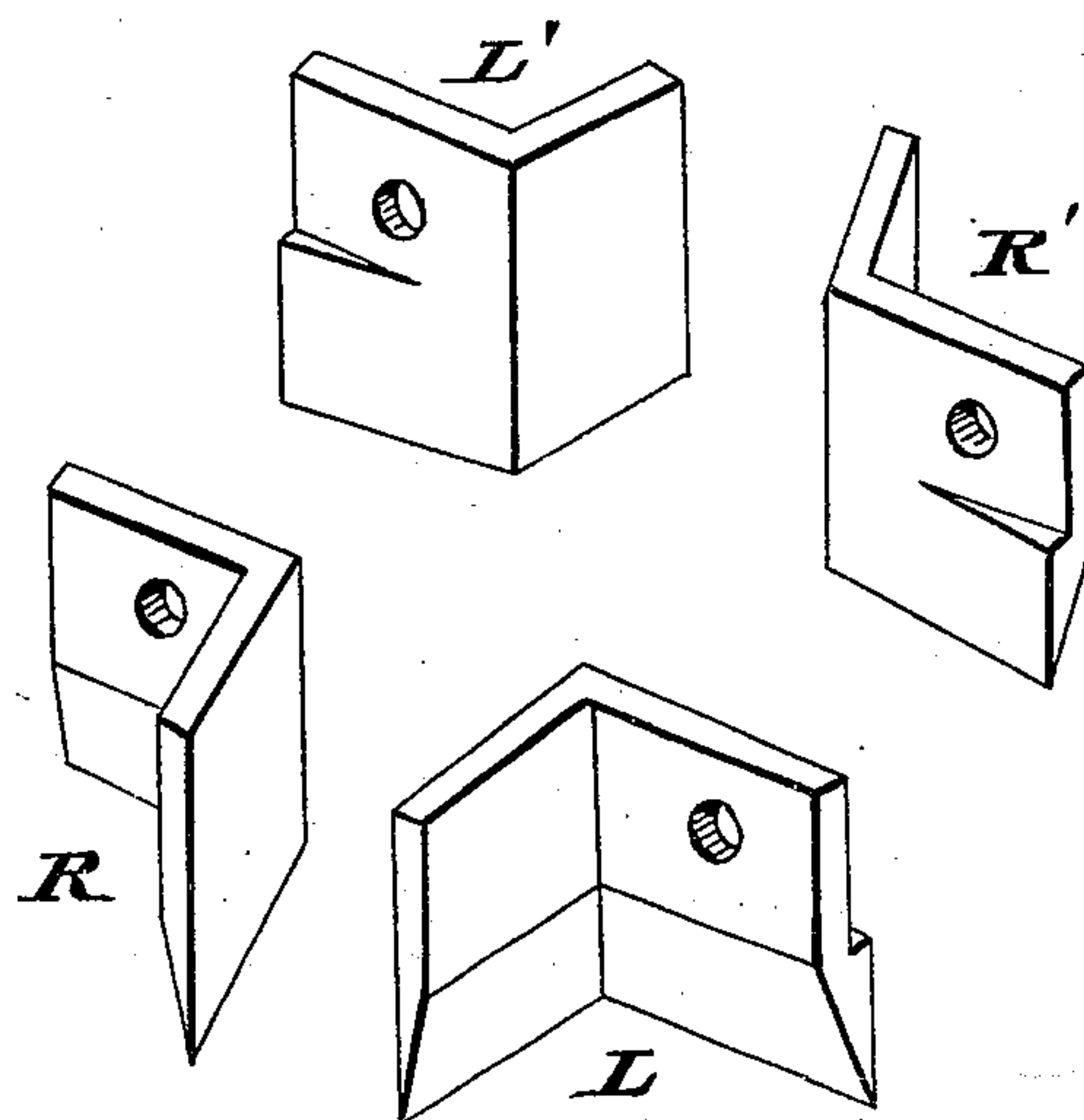


Fig. 2.



Attest.

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UNITED STATES PATENT OFFICE.

PHILANDER H. ELWELL, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF
TO WALTER E. PAYNE, OF SAME PLACE.

ADJUSTABLE NOTCHING-CUTTER.

SPECIFICATION forming part of Letters Patent No. 245,468, dated August 9, 1881.

Application filed January 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, PHILANDER H. ELWELL, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Adjustable Notching-Cutter, of which the following is a specification.

My invention relates to an improvement on the die or cutter usually employed to form the re-entrant angles or corners in envelope-blanks. In the customary form of this instrument the cutter consists of a single block to which the bits or cutters proper are secured by screws or rivets. This arrangement of course necessitates the provision of a separate and distinct block or head for each form and each dimension of envelope required to be manufactured. My cutting-tool, on the contrary, is applicable to every description of envelope, each bit being for this purpose composed of an angular piece of steel, one of whose leaves or limbs is perforated to receive a screw-bolt, which bolt has at its mid-length an eye that engages over another bolt, which is square or otherwise formed at its mid-length for the action of a wrench.

My device or tool comprises three double-ended bolts, four angular cutters, and twelve fastening or clamping nuts.

In the accompanying drawings, Figure 1 is a top view of a tool embodying my invention. Fig. 2 represents the four angular knives or bits detached.

A is double-ended screw-bolt, whose central portion, *a*, is preferably of square or other non-circular transverse section. The bolt A occu-

pies eyes *b* in two other similarly double-ended bolts, B B'.

R R' L L' are four similar angular bits or cutters, of which the right-hand bits R and R' are of identical form, and of which the form of each left-hand bit L or L' is identical with that of the other. One leaf or blade of each bit is perforated to easily admit one of the screws, B or B'. Four nuts, 1 2 3 4, enable the bolts B B' to be secured at any desired points on the bolt A, and eight nuts, 5 6 7 8 9 10 11 12, enable the respective bits to be secured at any desired points upon the bolts B B'.

The tool having been properly adjusted the stack of blanks are placed upon the cutting-table of a screw or other press, the tool properly placed upon them, and the follower brought down so as to cause the bits to pass through and to notch the blanks in the same manner as the solid cutter is now used.

I claim as new and of my invention—

The tool for cutting the re-entrant angles or notches of envelopes, consisting of the four adjustable angular bits R R' L L', the bolts B b B' b, the bolt A *a*, and the clamping-nuts 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12, the whole being combined as and for the purposes set forth.

In testimony of which invention I hereunto set my hand.

PHILANDER H. ELWELL.

Attest:

GEO. H. KNIGHT,
SAML. S. CARPENTER.