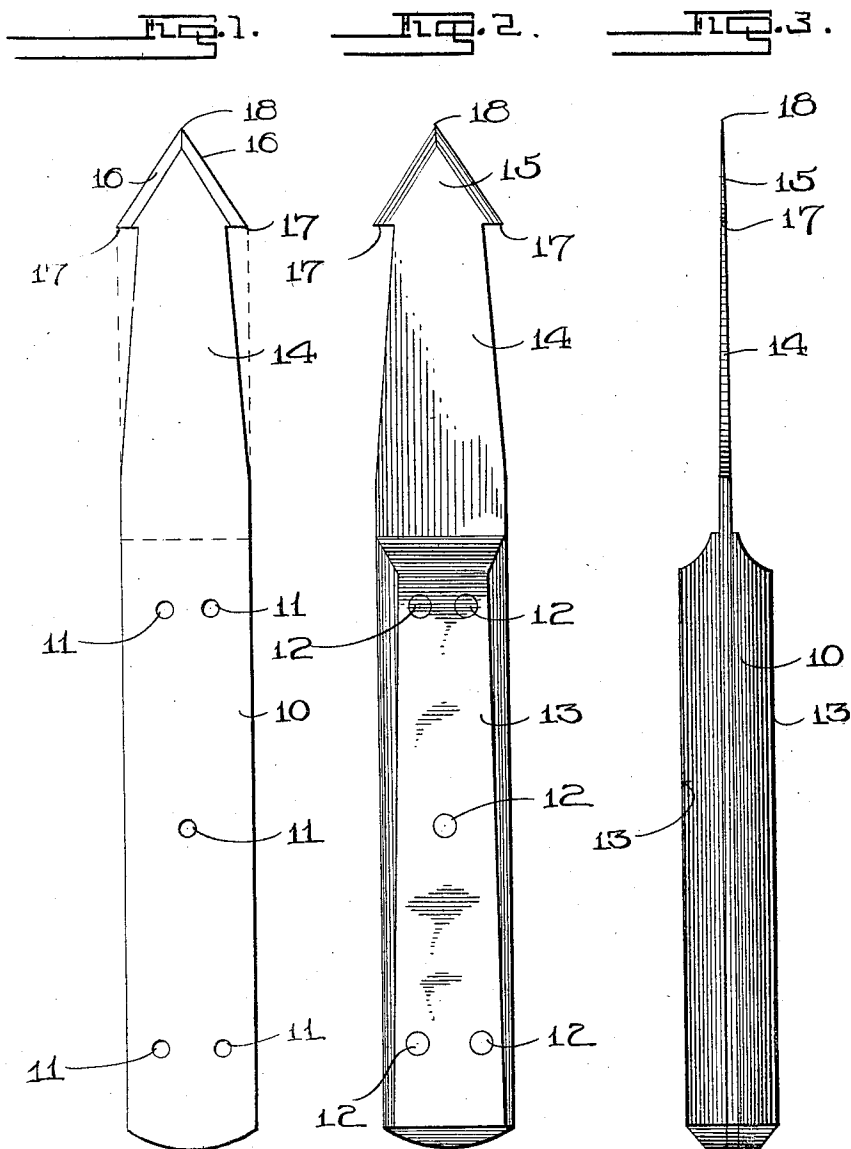


A. LE R. LEIDICH.
 PLATE CUTTER.
 APPLICATION FILED JUNE 25, 1912.

1,057,857.

Patented Apr. 1, 1913.



WITNESSES

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UNITED STATES PATENT OFFICE.

ARTHUR LE ROY LEIDICH, OF EASTON, PENNSYLVANIA.

PLATE-CUTTER.

1,057,857.

Specification of Letters Patent.

Patented Apr. 1, 1913.

Application filed June 25, 1912. Serial No. 705,882.

To all whom it may concern:

Be it known that I, ARTHUR LE ROY LEIDICH, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Plate-Cutters, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to knives which are used in print shops for cutting plates of cast type, and the principal object of the invention is to provide a knife of the character described which is so constructed that
15 the plate of type may be readily cut with one movement of the arm, and also to provide a knife which may be used for cutting out what is known in the trade as "nigger heads." This knife may also be used for
20 trimming the edges of the plate of type after being broken thereby permitting the plate of type to fit into the frame which carries the type.

It will, therefore, be seen that this invention provides a knife of very simple and cheap construction which will very readily and efficiently perform a number of different operations due to its peculiar shape.

This invention is illustrated in the accompanying drawings, wherein:—

30 Figure 1 is a side view of the knife blade with the handle sections removed. Fig. 2 is a view similar to Fig. 1 with the handle sections in place. Fig. 3 is an edge view of
35 the knife with the handle sections in place.

Referring to the accompanying drawings, it will be seen that this invention comprises a blade 10 which is of the same diameter throughout the greater portion of its length
40 and is provided with openings 11 through which rivets 12 may pass in order to connect the handle sections 13 with the blade.

The forward end portion 14 of the blade is tapered as shown in Figs. 1 and 2, and
45 terminates in a triangular head 15, the base of which is of the same width as the body portion of the blade, thus permitting the knife blades to be formed from lengths of strip steel of the same width throughout
50 their entire length. This permits the blanks from which the blades are made to be struck off by a cutting machine thus

greatly reducing the cost of the blanks. The sides 16 of the head are beveled as shown in the drawing and converge from the rear
55 corners 17 to the point 18 at the forward end of the head thus making a knife having its end provided with two cutting edges starting at the sharp near corners and terminating in a sharp point at the forward
60 end of the knife. After the blank has been cut by the cutting machine the side portions of the blank may be cut or filed to form the cut-out portions shown in Figs. 1 and 2, and
65 the converging forward edges and the knife then tempered and ground to form the beveled sides for the cutting edges thus forming a very serviceable knife which can be
70 produced at a very small cost.

When using this knife and it is desired to cut a plate of type in two, the plate is grasped with one hand and the knife in the other with one of the points 17 resting upon the plate at the point at which it is desired
75 to cut the plate. The knife is then drawn toward the person and the sharp point 17 will dig into the soft plate of type thus making a deep cut which permits the plate to be easily broken by striking the plate
80 with a suitable instrument. After the plate has been broken the rough edge may be trimmed off by the sharpened edges 16 and the type plate is then ready for use. If
85 there are any nigger heads or wrong letters in the plate of type they may be readily removed by the sharp point 18. It will, therefore, be seen that a knife of very simple construction has been provided which may
90 be readily used to perform a number of different operations and with the minimum amount of work.

Having thus described the invention, what is claimed as new, is:—

A plate cutter comprising a blade having
95 a body portion with blunt tapering edges, the forward end thereof being narrower than the rearward end, a triangular-shaped head integral with the forward end of and in the same plane as said body portion, the
100 base of said head being of substantially the same width as the rearward end of said body portion and forming angular shoulders adjacent the tapering edges thereof,

said shoulders being blunt, the two remaining edges of said triangular head being sharpened throughout their lengths to form a sharpened point at the apex thereof, the
5 said triangular head being symmetrically disposed with respect to the longitudinal axis of said body portion of the blade.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

ARTHUR LE ROY LEIDICH.

Witnesses:

HARRY F. MIERS,
JOHN BRUNNER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
