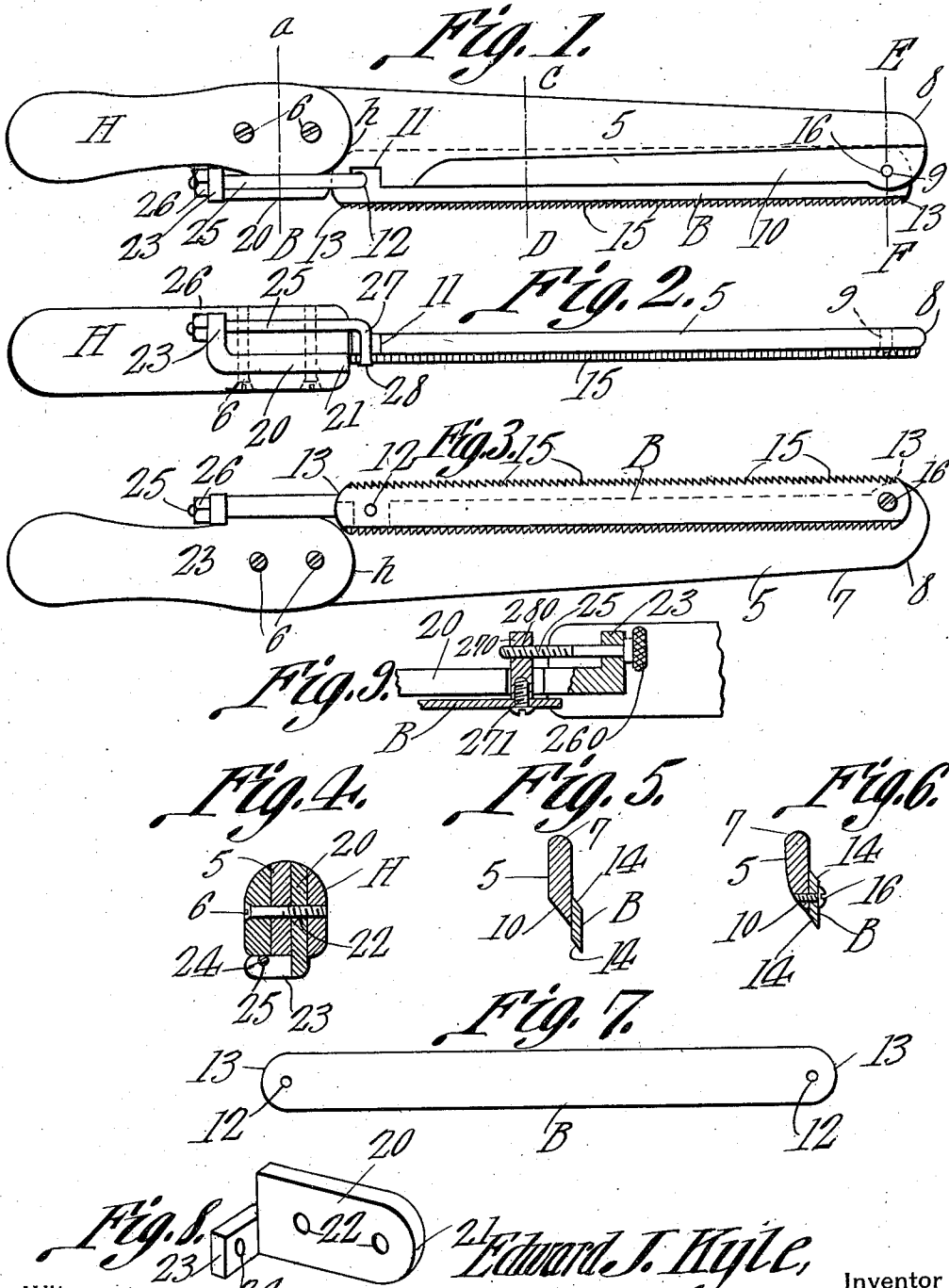


E. J. KYLE.
BREAD KNIFE.
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1,012,659.

Patented Dec. 26, 1911.



Witnesses

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BREAD-KNIFE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD J. KYLE, a citizen of the United States, residing at Harrisburg, in the county of Dauphin and State of Pennsylvania, have invented a new and useful Bread-Knife, of which the following is a specification.

This invention relates to cutlery, and more especially to knives; and the object of the same is to produce a two-edged and preferably toothed blade and improved means for holding it in its handle.

To this end the invention consists in the details of construction hereinafter more fully described and claimed, and as shown in the drawings wherein—

Figure 1 is a side elevation of this knife complete. Fig. 2 is a lower edge view. Fig. 3 is a side elevation of the knife inverted, taken from the side opposite that shown in Fig. 1. Figs. 4, 5 and 6 are sections on the lines A—B C—D and E—F of Fig. 1. Fig. 7 is a detail of the blade alone before its scallops are cut in it. Fig. 8 is a perspective detail of the attaching plate. Fig. 9 is a detail of a slightly modified form of the bolt.

In the drawings the letter H designates the handle and B the blade. The handle H is herein shown as having an extension 5 which is by preference a metal strip made separate from the handle and inserted into it as best seen in Fig. 4 where it is held by the pin 6 which may be rivets, bolts, or screws. By preference this extension 5 tapers slightly in width toward its outer end, is rounded as at 7 along its back and as at 8 along its outer extremity near which it is pierced with a hole 9, is beveled as at 10 along its lower edge as best seen in Fig. 5, and is notched as at 11 near its heel, the inner end of the handle H being rounded as at 12 so as to expose said notch. The blade B is cut from a strip of steel as best shown in Fig. 7 and pierced with eyes 12 near its rounded extremities 13, is beveled oppositely along both edges as best seen at 14 in Fig. 5, and finally is notched or toothed as at 15 along both sharp edges as best seen in Fig. 3; and in grinding the blade it is of course ground off on its bevels and through its notches. The outermost eye 12 of the blade is engaged by a removable pin 16 which passes through it and through the

hole 9 in the extension 5 as best indicated in dotted lines in Fig. 2, the position of these two parts being such that the lower edge of the blade will be exposed below the beveled lower edge of the extension for some little distance throughout its entire length so that the bevel 14 will be parallel with the bevel 10 as best seen in Fig. 5. The attaching means for this blade comprises a plate fastened in the handle and a stretching bolt, the former being best illustrated in Fig. 8. This plate has a flat body 20 with a rounded front end 21 conforming with the curvature of the rounded end 12 of the handle, and its body is pierced with holes 22 through which pass the pins 6 for holding the plate in place within the handle alongside the inner or heel end of the extension 5. At its inner lower corner this plate has a laterally projecting ear 23 pierced with an eye 24 which underlies the lower edge of the handle as best seen in Fig. 2 and by preference of a length that will keep its outer end within the contour of the handle as shown. The numeral 25 designates the stretching bolt whose outer end is passed through said eye 24 and receives a nut 26 and whose inner end is deflected laterally in an elbow 27 as best seen in Fig. 2, passes through the eye 12 at the inner end of the blade, and is headed slightly as at 28, the elbow 27 of this bolt passing through the notch 11 in the heel end of the extension as best seen in Fig. 1.

With this construction of parts, the knife is assembled as follows: Supposing the plate and extension to be held in the handle by rivets 6 so that they are practically immovably connected, the blade is brought into place and attached to the outer end of the extension, its body laid alongside the same until the eye 12 in its inner end stands opposite the notch 11, the deflected end 27 of the stretching bolt passed through said eye and perhaps headed up as at 28, the blade adjusted until its cutting edge is parallel with the lower edge of the extension 5, and finally the nut 26 tightened to stretch the blade in place and hold it immovably with relation to the extension 5. The said knife is then used in the customary manner, and when it becomes dull it is quite obvious that by loosening the nut and reversing the action just described, the blade can be discon-

nected from the handle and its extension and inverted and replaced so that it can be used until the second edge becomes dull. Then it can be removed and replaced by a new blade
5 which is sharp, or this removed blade can be sharpened and returned to position. It is quite obvious that the forming of notches or scallops 15 within the edges of the blade is a mere matter of choice, for the blade
10 might have straight edges as shown in Fig. 7. In Fig. 9 is shown a slightly different form of bolt, wherein I employ a block 270 instead of the elbow 27, and connect the outer end of the block with the blade by a
15 screw or rivet 271, whereas the end of the bolt 25 passes through the block as at 280 and by preference is threaded therein while its other end is provided with a thumb screw 260. By this arrangement the turning of
20 the thumb screw rotates the bolt as a whole and draws the block to the rear so as to tighten up the blade, but it will be clear that the blocks and bolts might be rigidly connected and the latter have the threads and
25 the nut 26 as best seen in Fig. 2. Or if the bolt itself be given the elbow 27 shown in the last-named view, the entire device will be simpler because the block may be omitted. Either construction produces an L-shaped
30 connection between the ear 23 and the inner

end of the blade, and the operation is the same.

What is claimed is:

A knife, having a handle, an attaching plate connected to the handle and having
35 its lower edge projecting below the handle, said plate having a lug standing at right angles to the body of the lower end of the plate and in a horizontal plane thereto when the plate occupies a vertical plane, whereby
40 the lug lies close to and under the handle, an extension carried by the handle, the portion near the handle being provided with a notch therein, a cutting blade disposed to parallel the face of the extension and hav-
45 ing its outer end connected to the outer end of the extension, and an adjusting screw engaging the blade through the notch of the extension and also mounted in the lug of the attaching plate so that said screw lies
50 in a plane parallel to and slightly distant from the plane of the attaching plate.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

EDWARD J. KYLE.

Witnesses:

ALEX. S. MILLER,

R. S. URICH.

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