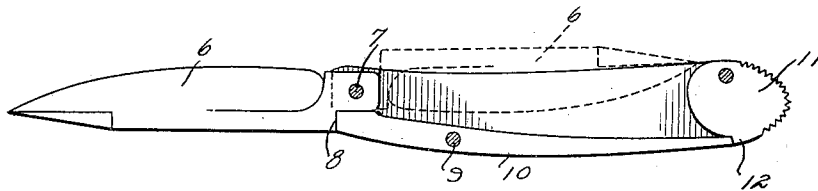
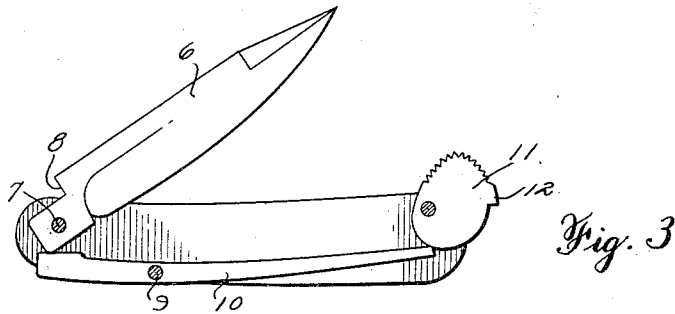
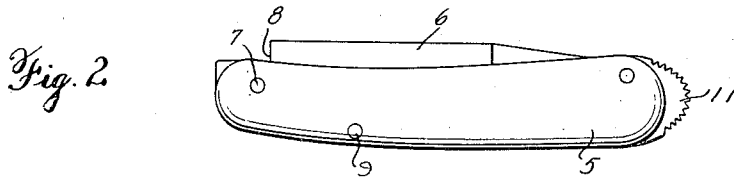
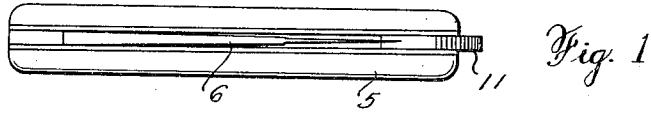


E. BOE.  
KNIFE.

APPLICATION FILED FEB. 26, 1920.

1,373,993.

Patented Apr. 5, 1921.



WITNESSES

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# UNITED STATES PATENT OFFICE.

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## KNIFE.

1,373,993.

Specification of Letters Patent.

Patented Apr. 5, 1921.

Application filed February 26, 1920. Serial No. 361,524.

*To all whom it may concern:*

Be it known that I, EDD BOE, a citizen of the United States, and a resident of Clearbrook, county of Clearwater, State of Minnesota, have invented a new and useful Improvement in Knives, of which the following is a full, clear, and exact description.

This invention relates to knives and has particular reference to a pocket, or so-called pen knife in which the cutting blade or blades thereof are adapted to assume an open or closed position relative to the handle in which they are mounted.

The primary object of the invention is to provide a novel means for locking the blade or blades in either an open or closed position relative to the handle.

A further object of the invention is to do away with the customary springs which are usually embodied in the construction of knives of this type, thus providing a knife which aside from the many advantages of the locking feature for the blade or blades, will wear longer than the ordinary knife, to represent a more staple structure, and an improvement in many other ways over what has heretofore been accomplished.

With these and minor objects in view the invention will be more readily understood upon reference to the accompanying drawing in which,

Figure 1 is a top plan view of one embodiment of the invention.

Fig. 2 is a side elevation.

Fig. 3 is a longitudinal section showing the blade partly closed, and

Fig. 4 is a longitudinal section showing the blade as locked in open position in full lines, and in closed position in dotted lines.

Referring to the drawing in detail it will of course be appreciated from the following description that the knife may be made of various sizes and designs with either a single or plurality of blades, without departing from the spirit of the invention. According to the illustration shown in the drawing the knife is constructed with the customary handle 5, the sides of which being spaced apart provide a recess or elongated slot in which is pivoted the blade 6. The pivotal mounting for the blade is preferably arranged in one end of the handle at the end of the recess therein and comprises the pin 7 which is presented transversely of

the recess. The blade in this manner is adapted to be swung about its pivot to open or closed position.

Inasmuch as it is desirable for obvious reasons to lock the blade in either an open or closed position the pivoted end of the blade is constructed with the shoulder 8 in one of its edges, with the opposite edge offering a substantially flat surface. Longitudinally presented in the recess of the handle and pivoted therein intermediate its ends, as at 9, is a lever 10, which extends substantially the length of the recess. One end of the lever is presented adjacent the pivoted end of the blade, with the opposite end presented adjacent a cam disk 11 with a portion of which it is adapted to have a wiping contact so that the cam may rock the lever about its pivot to present the end adjacent the pivoted end of the blade in the shoulder 8 when the blade 6 is in open position, whereupon it may be thus locked in this position. To maintain the engagement, the cam is provided with a stop or abutment 12, which bears against the end of the lever adjacent the cam, thus preventing any thrust on the blade disengaging the end of the lever from the shoulder 8.

When it is desirable to close the blade, the cam disk 11 is turned contrainclockwise about its pivot, whereupon the lever is raised from its locking engagement with the blade and the blade is free to be swung about its pivot to closed position. When the blade is closed the cam disk is turned clockwise about its pivot, whereupon it will again effect a wiping contact with the lever, thus causing the blade engaging end thereof to bear against the flat surface on the pivoted end of the blade opposite the shoulder; and so long as the abutment 12 on the cam disk which extends beyond the handle engages the adjacent end of the lever, the lever will resist an effort to open the blade by swinging the same about its pivot.

The portion of the edge of the cam disk is serrated to offer a roughened surface in order that the disk may be easily manipulated.

As stated the invention is in no way confined to a single blade knife as its advantages may be realized in connection with a plurality of blades in which instance the blades may be selectively used, with those

blades not in use locked in closed position, with the blade in use locked in open position, and when none of the blades are in use all of them may be collectively locked in  
5 closed position.

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

10 A knife comprising a handle, a blade pivoted in the handle and adapted to assume an open or closed position and be locked in said positions, a lever pivoted intermediate its ends within the handle and constituting the back thereof, one end of said lever hav-  
15 ing a flat stepped portion, the pivot end of the blade having on one side a shoulder, and a flat portion extending from said shoulder

to that end of the blade and on the opposite side, the blade having a continuous flat portion which with the shouldered side, coact 20 with the aforesaid flat stepped portion of the back lever, a locking cam pivotally mounted in the end of the handle opposite the blade pivot end, said cam having its inner end rounded and adapted to have wip- 25 ing contact with the adjacent end of the back lever, and its outer end projecting beyond the end of the handle and having a serrated rounding edge, terminating in a stop shoulder adapted to abut the adjacent 30 end of the back lever to lock the blade in complete open or closed position, substantially as herein shown and described.

EDD BOE.