

C. H. WHITE.
 POCKET KNIFE.
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1,125,234.

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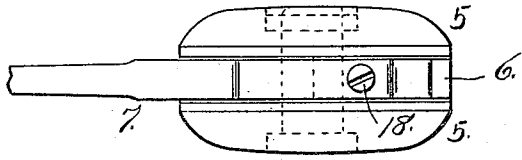


Fig. 1.

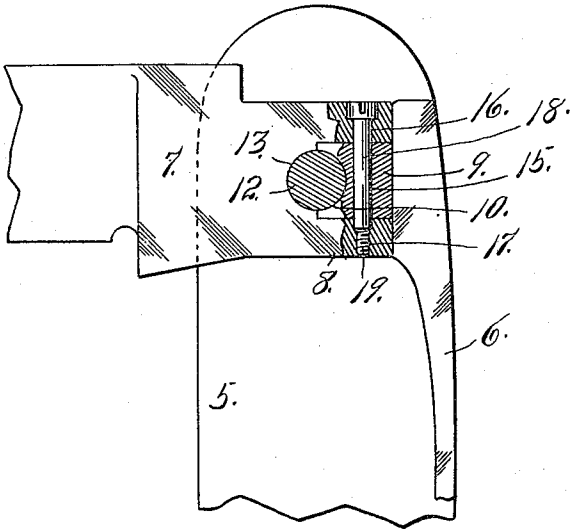


Fig. 2.

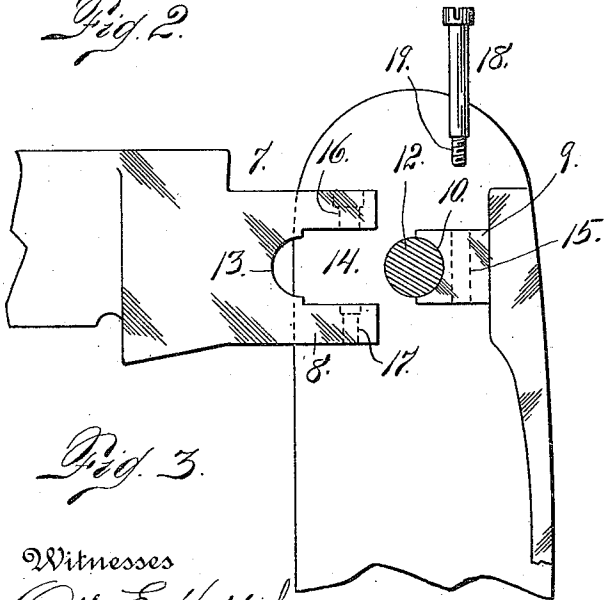


Fig. 3.

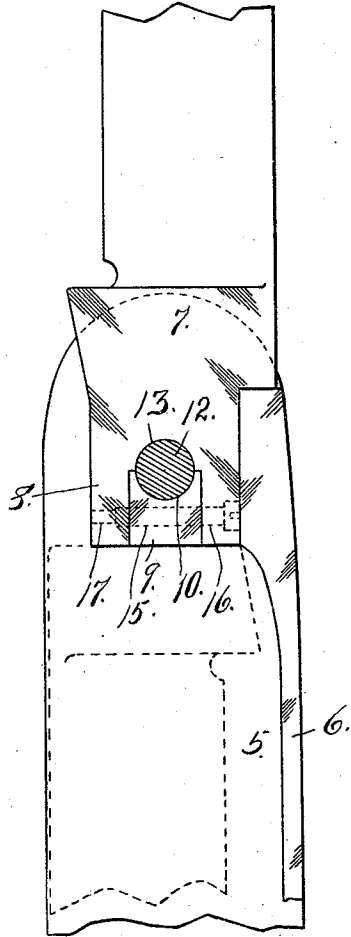


Fig. 4.

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UNITED STATES PATENT OFFICE.

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POCKET-KNIFE.

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To all whom it may concern:

Be it known that I, CARL H. WHITE, citizen of the United States, residing at Newark, county of Essex, and State of New Jersey, have invented certain new and useful Improvements in Pocket-Knives; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the characters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in pocket knives of the construction in which the blades are removable. In my present improvement, the tang of the blade is in two parts adapted to be connected by a removable fastening device so that when the parts are assembled and the fastening device is in place, the tang is practically integral. When, however, it is desired to remove the blade for the purpose of substituting a new blade or a new or different folding tool of any kind, it is only necessary to remove the fastening device which, in the specific construction illustrated in the drawing, consists of a screw pin. In this construction, it is not necessary to make provision for releasing the tension on the blade when in the half open position, since the screw pin or other fastening device may be removed with the same facility though the spring engages the tang with the usual tension. In fact, it is preferable in this form of construction that the tang should be acted on by the spring under tension as it holds the blade securely against movement during the removal of the fastening device.

Having briefly outlined my improved construction, I will proceed to describe the same in detail, reference being made to the accompanying drawing in which is illustrated an embodiment thereof.

In this drawing: Figure 1 is an end elevation of a knife equipped with my improvement. This is a view looking in the direction of arrow 1, Fig. 2. Fig. 2 is a fragmentary sectional view of a knife provided with my improvement, the pivot pin upon which the blade turns being shown in cross section and the two parts of the

tang partly broken away and sectionized to disclose the screw pin for fastening the two tang parts together. Fig. 3 is a similar view with the tang fastened or securing pin removed, the blade being shown in the half open position and somewhat removed from its normal position when the parts are removed. Fig. 4 is a view similar to Fig. 2 but with the blade shown in different positions, the full line position showing it wide open and the dotted line position showing it closed.

The same reference characters indicate the same parts in all the views.

Let the numeral 5 designate each of the two side parts of a knife handle and 6 the main spring thereof. In this form of construction, the tang 7 of the blade may be said to be composed of two parts 8 and 9, the part 8 being integral with the body of the blade and the part 9 separated therefrom and in reality forming a separate member curved as shown at 10 to fit the pivot pin 12 and acted on by the main spring. The tang member 8 in addition to a semicircular recess 13 adapted to fit the pivot pin 12 on the opposite side from the recess 10 of the part 9, is provided with an elongated opening 14 adapted to receive the tang part 9 when the parts are assembled, (see Figs. 2 and 4). The tang part 9 is provided with an opening 15 which, when the blade is in the assembled position, registers with opening 16 and 17 formed in the tang part 8 on opposite sides of the slot 14. When the parts are assembled, the two tang members 8 and 9 are connected by a suitable fastening device. In the specific form of construction disclosed in the drawing, this fastening device consists of a screw pin 18 adapted to enter the openings 15, 16 and 17 of the two tang parts, one extremity of this screw pin is provided with the usual nick to receive the operating end of a screw driver, while the opposite extremity is slightly reduced and threaded as shown at 19 to enter the opening 17, which is screw threaded a portion of its length for the purpose, (see Fig. 2).

While I have illustrated in the drawing but one specific form of construction, it is evident that many different forms may be employed without in any way departing

from the spirit of the invention which broadly involves a blade composed of two separable tang parts arranged to cooperate when connected by a suitable fastening device, whereby it becomes practicable to remove the body of the blade and a portion of the tang from the handle upon the removal of the tang fastening. Of course, the object of a construction of this character is obvious since it makes it practicable to remove a blade or folding tool carried by the knife handle and substitute another similar or different blade or tool, the one requirement being that the tang portion of the blade or tool be identical in each case whereby it is adapted to fit the knife handle and cooperate with the tang member which remains in place after the blade with its integral tang part has been removed.

In order to remove the blade, it is only necessary to swing it on the pivot pin 12 to the half open position or to the position intermediate the wide open and closed positions, after which a small screw driver may be inserted in the nick of the screw pin, (see Fig. 1), after which the screw pin may be turned to disconnect its threaded portion 19 from the tang part 8. As soon as the screw pin has been removed, the blade, together with its integral tang part, is, of course, free and may be disconnected from the handle and replaced or another similar blade or folding tool having an identical tang part 8 substituted therefor. As soon as the body of the blade has been put in place, the screw pin is again applied, when the structure is complete and secure as to all of its parts.

Having thus described my invention, what I claim is:

1. A knife blade including a plurality of cooperating tang parts lying between the same parallel planes and respectively recessed to receive the pivot pin, the said parts having respectively a slot and a part entering the slot for interlocking purposes, the interlocking parts having registering perforations formed edgewise therein to receive a fastening device.

2. A knife blade having a tang formed in two separable parts lying between the same parallel planes and recessed to receive the pivot pin of the blade, one part of the tang having a slot which the other part enters, and the two parts having registering perforations adapted to receive a fastening means.

3. In a pocket knife, a tang formed in two separable parts, a blade integral with one of said parts, the two parts being transversely recessed to receive the pivot pin of the blade, one of said parts having a slot which the other part enters, and the two parts having registering perforations to receive a fastening means.

4. A knife blade composed of two tang

parts, one of which is integral with the body of the blade while the other is separable therefrom, the two parts being respectively provided with recesses together forming a circular opening, the tang part which is integral with the blade being slotted to receive the separable tang part and the two parts having registering openings adapted to receive a fastening device.

5. In a knife, the combination with a handle, a main spring and a pivot pin, of a blade having an integral tang part recessed to engage the pivot pin on one side, and slotted beyond the pivot pin recess, and a separable tang part also recessed to engage the pivot pin and shaped to fill the slot in the tang part integral with the blade, the two tang parts having registering openings, and a fastening device adapted to engage said openings and secure the tang parts in their cooperative relation, substantially as described.

6. The combination with a knife handle, a main spring and a pivot pin for the blade, of a blade having an integral tang part provided with a half circle recess adapted to fit the pivot pin, the integral tang part of the blade being slotted beyond the half circle recess, a separable tang part also having a half circle recess adapted to fit the pivot pin, and normally acted on by the main spring of the handle, the separable part being exteriorly counterpart in shape to the slot beyond the half circle recess of the integral tang part of the blade, whereby, when the body of the blade is in place, a complete tang is formed, the two tang parts having registering openings, and a screw pin adapted to enter said openings, substantially as described.

7. The combination in a knife of two handle members, an interposed main spring and a pivot pin, of a blade having an integral tang part provided with a half circle recess adapted to fit the pivot pin and also provided with an open slot extending beyond the half circle recess, and a separable tang part also recessed to half encircle the pivot pin, the two tang parts of the blade being provided with registering openings, and a fastening device adapted to enter said openings, one extremity of the fastening device being exposed for purposes of removal when the blade is in the half open position.

8. A knife blade having an integral and a separable tang part, the two tang parts being recessed to fit a pivot pin when arranged in cooperative relation, the integral tang part having an extension opening beyond its pivot-pin-engaging-recess, the said extension opening being the counterpart in shape of the separable tang part, the integral tang part having openings formed in its two members on opposite sides of the extension opening, adapted to receive a fastening

device, one of said fastening-device-openings being exposed on one of the side faces of the tang, the separable tang part also having a fastening-device-opening arranged to register with the two corresponding openings of the integral tang part, substantially as described.

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

CARL H. WHITE.

Witnesses:

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