M. NEFT.

KNIFE.

APPLICATION FILED SEPT. 22, 1919.

1,358,097.

Patented Nov. 9, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

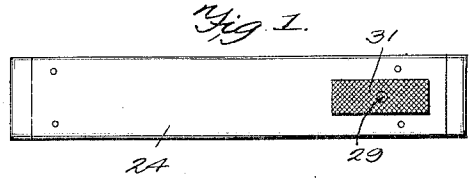


Fig. 2.

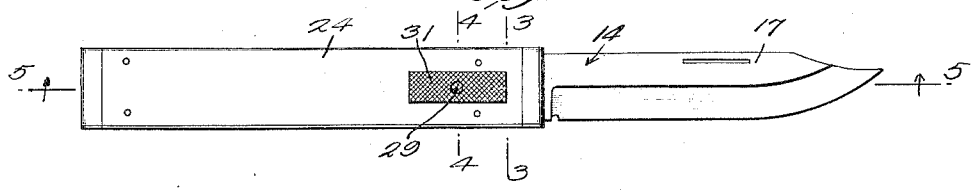


Fig. 3.

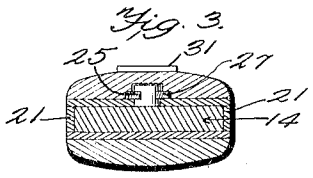


Fig. 4.

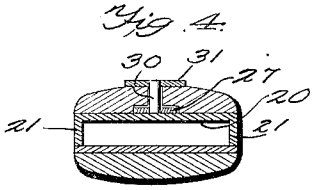


Fig. 5.

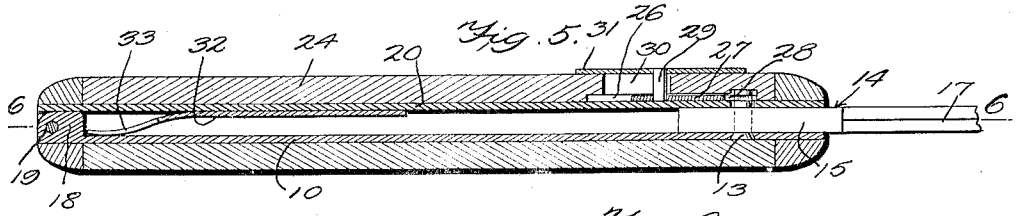


Fig. 6.

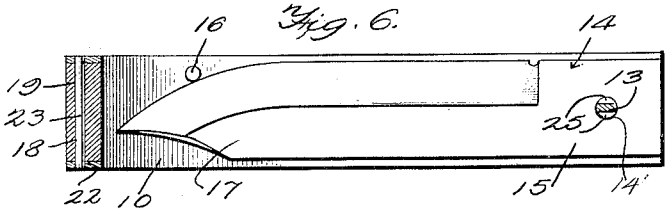


Fig. 7.

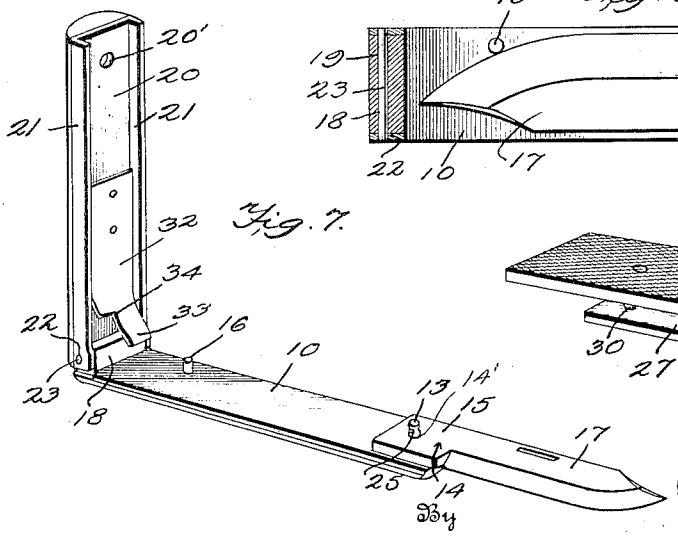
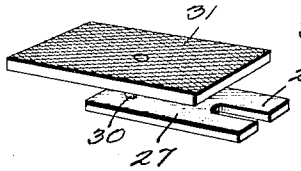


Fig. 8.



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2 SHEETS—SHEET 2.

Fig. 9.

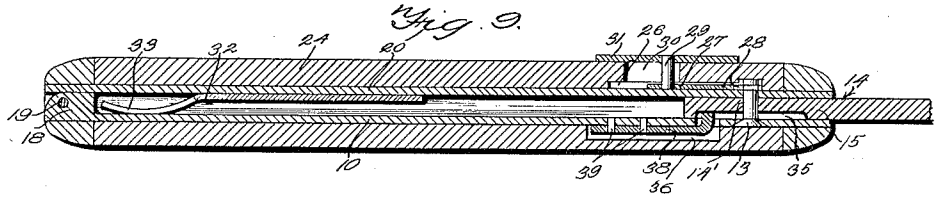


Fig. 10.

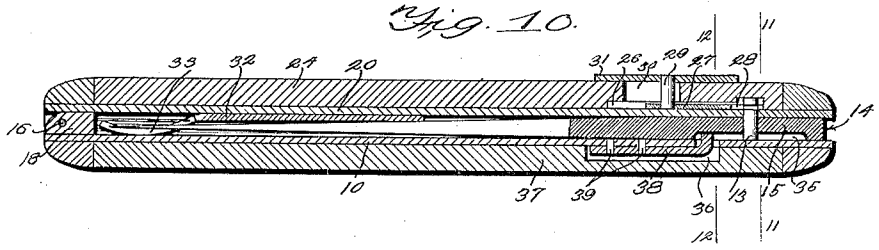


Fig. 11.

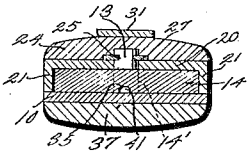


Fig. 12.

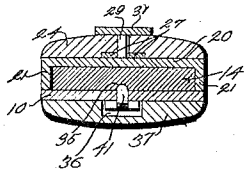


Fig. 13.

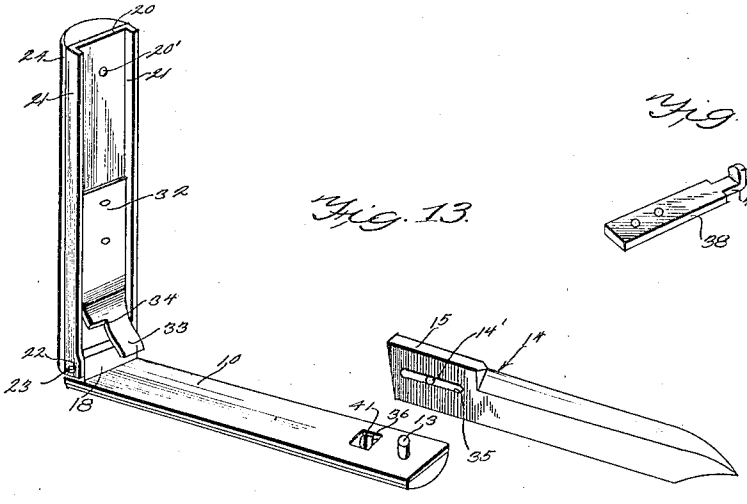
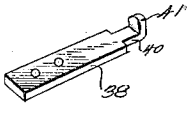


Fig. 14.



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By Ch. Parker

Attorney

UNITED STATES PATENT OFFICE.

MAX NEFT, OF SEATTLE, WASHINGTON.

KNIFE.

1,358,097. Specification of Letters Patent. Patented Nov. 9, 1920.

Application filed September 22, 1919. Serial No. 325,407.

To all whom it may concern:

Be it known that I, MAX NEFT, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented certain new and useful Improvements in Knives, of which the following is a specification.

This invention relates to new and useful improvements in knives, and more particularly to a device of this character in which the blade is adapted to be concealed within the body, when not in use.

An important object of the invention is to provide such a device wherein the blade, when in use, is held solidly in position and when not in use, is completely concealed.

A further object is to provide a device of this character having a hinged casing adapted to be opened by a spring and means for locking the hinged casing in closed position.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Figure 1 is a plan view of one form of the invention showing the blade in a closed position.

Fig. 2 is a similar view showing the blade in extended position,

Fig. 3 is a section taken on line 3—3 of Fig. 2,

Fig. 4 is a section taken on line 4—4 of Fig. 2,

Fig. 5 is a section taken on line 5—5 of Fig. 2,

Fig. 6 is a section taken on line 6—6 of Fig. 5,

Fig. 7 is a perspective showing the casing in open position, and,

Fig. 8 is a perspective of the locking plate.

Fig. 9 is a sectional view taken through a slightly modified form of my invention showing the blade in open position.

Fig. 10 is a similar section showing the blade in closed position.

Fig. 11 is a section taken on the line 11—11 of Fig. 10.

Fig. 12 is a section taken on the line 12—12 of Fig. 10.

Fig. 13 is a detached perspective of the casing and blade showing the slot formed in the under side of the blade, and

Fig. 14 is a perspective of the spring stop detached.

Referring now to the drawings and more particularly to Figs 1 to 8 thereof the numeral 10 indicates one plate of the casing of my knife. Secured to the casing is a wood fiber or any other suitable material grip of the usual type. Secured to the casing 10 adjacent one end thereof is a pin 13, upon which is pivotally mounted a blade 14, having an opening 14′ to receive the pin. The blade 14 comprises a shank 15, and a blade portion 17. In the form shown in Figs. 1 to 8 inclusive, when the blade is in the position shown in Figs. 1 and 6, the blade portion 17 contacts a lug 16 formed on or secured to the casing 10.

The opposite end of the casing 10 is provided with an enlargement 18 having a transverse opening 19 formed therein. A complementary casing 20 is provided, having outstanding flanges 21. Adjacent one end, these flanges are provided with alined openings 22 and a pin 23 extends through these openings and the opening 19 and pivotally connects the two portions of the casing together.

The pin 13 extends upwardly beyond the face of the blade 14 and is provided in its side with grooves 25 forming a reduced portion. An aperture 20′ is formed in the complementary casing 20 which is adapted to receive the upstanding head of the pin 13. The complementary casing 20 is provided with a grip 24. Mounted in the groove 26 formed in the grip 24 is a plate 27 having a slot 28 formed therein. This slot is adapted to receive the reduced portion of the pin 13 and lock the two portions of the casing together upon the blade. By referring to Figs. 5 and 6 it will be seen that the blade will lock in either the open or closed position. A pin 29 is secured to the plate 27, and operates in a slot 30 formed in the grip 24. To the outer end of this pin is secured a plate 31, which slides upon the upper surface of the grip 24. This plate is slightly roughened to supply a frictional surface to receive the thumb of the operator.

Secured to the complementary casing 20 is a spring steel member 32. This member is down-bent at its rear end 33, and the

rear end is provided with a cut out portion 34. The purpose of this cut out portion is to prevent contact of the spring with the blade. As is clearly shown in Fig. 5, when the casing is in the closed position, the spring 32 is under tension and consequently as soon as the plate 27 is shifted to release the pin 13, the casing will open.

By referring to Figs. 3 and 4, it will be obvious that the flanges 21 completely conceal the blade when in the closed or inoperative position and that when the blade is in the open position, these flanges engage the shank of the blade and hold the blade rigid.

Referring now more particularly to Figs. 9 to 14 inclusive, the numeral 35 designates a concave slot formed in the under side of the shank 15 of the blade 14. This slot communicates with the opening 14′ which receives the pin 13 of the casing 10 and lies in the plane of the axis of the blade 14.

Mounted in a recess 36 formed in the grip 37 of the casing 10 is a spring stop 38. This spring stop is secured to the casing 10 by means of rivet 39 or the like, and is provided upon its free end with the reduced portion 40 terminating in an upturned portion 41 having a convexed upper surface. The convexed upper surface of the spring stop 38 is adapted to co-act with the concaved groove 35 formed in the under side of the blade 14 to act as a stop in both the open and closed positions, thus eliminating the necessity of a stop 16, shown in Fig. 7, and the necessity alining the blade with the flanges 21.

It is to be understood that the forms of my invention herewith shown and described are to be taken as a preferred example of the same and that various changes in the shape, size, and arrangement of parts may be resorted to without departing from the spirit of my invention or the scope of the subjoined claims.

Having thus described my invention, I claim:

1. In a device of the type described, a casing plate, a blade pivotally secured thereto, and adapted to swing in a plane parallel to the plane of said plate, a complementary casing plate pivotally secured to said first named plate, outstanding flanges carried by said complementary plate adapted to engage the sides of the shank of said blade, means for locking said complementary plate in engaged position, and resilient means for alining said blade with said flanges in the open and closed positions.

2. In a device of the type described, a pair of plates pivotally connected at one end, one of said plates being provided with outstanding flanges, a blade pivotally secured to the other of said plates adjacent the free end thereof and adapted to swing in a plane parallel to the plane of said plate, the flanges of said first named plate being adapted to engage the sides of the shanks of said blade, resilient means for holding said casing plates in open position, and means for locking said plates in closed position, and resilient means for alining said blade with said flanges in the open and closed position.

3. In a device of the type described, a pair of plates pivotally connected at one end, one of said plates being provided with outstanding flanges, a blade pivotally secured to the other of said plates adjacent the free end thereof and adapted to swing in a plane parallel to the plane of said plate, the flanges of said first mentioned plate being adapted to engage the sides of the shank of said blades, resilient means for holding said casing plate in open position, and means for locking said plates in closed position, comprising a pin extending upwardly from the shank of said knife, said pin being provided with a reduced portion, an opening formed in said first mentioned plate adapted to receive said pin and a shiftable member provided with a slot adapted to receive the reduced portion of said pin.

4. In a device of the type described, a pair of plates pivotally connected at one end, one of said plates being provided with outstanding flanges, a blade pivotally secured to the other of said plates adjacent the free end thereof and adapted to swing in a plane parallel to the plane of said plate, the flanges of said first mentioned plate being adapted to engage the sides of the shank of said blades, resilient means for holding said casing plate in open position, and means for locking said plates in closed position, comprising a pin extending upwardly from the shank of said knife, said pin being provided with a reduced portion, an opening formed in said first mentioned plate adapted to receive said pin and a shiftable member provided with a slot adapted to receive the reduced portion of said pin, and resilient means for alining said blade with said flanges in the open and closed positions.

5. In a device of the type described, a casing plate, a blade pivotally secured thereto, a complementary casing plate pivotally secured to said first named plate and adapted to swing in a plane parallel to the plane of said plate, outstanding flanges carried by said complementary plate, adapted to engage the sides of the shank of said blade, and means for locking said complementary plate in engaged position, and resilient means for alining said blade with said flanges comprising a groove formed in said blade and a spring stop carried by said casing adapted to engage said groove in the open and closed positions.

6. In a device of the type described, a pair of plates pivotally connected at one end, one of said plates being provided with outstanding flanges, a blade pivotally secured to the

other of said plates adjacent the free end thereof and adapted to swing in a plane parallel to the plane of said plate, the flanges of said first mentioned plate being adapted to engage the sides of the shank of said blades, resilient means for holding said casing plate in open position, and means for locking said plates in closed position, comprising a pin extending upwardly from the shank of said knife, said pin being provided with a reduced portion, an opening formed in said first mentioned plate adapted to receive said pin and a shiftable member provided with a slot adapted to receive the reduced portion of said pin, and resilient means for alining said blade with said flanges comprising a groove formed in said blade and a spring stop carried by said casing adapted to engage said groove in the open and closed position.

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

MAX NEFT.

Witnesses:
W. E. FROUDE,
H. M. CRAMER.