(No Model.)

C. GERLACH.

POCKET KNIFE.

No. 456,811. Patented July 28, 1891.

Fig. I.

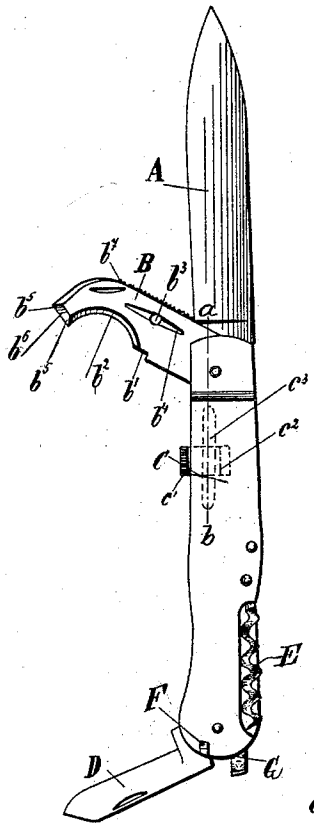


Fig. II.

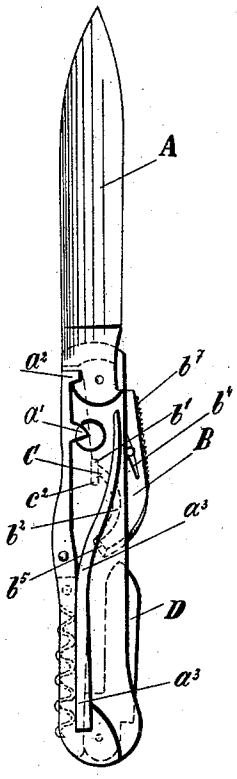
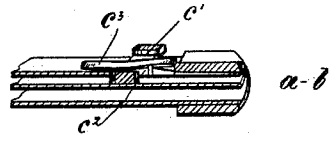


Fig. III.



Witnesses.
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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

CONSTANTIN GERLACH, OF TRACHENBERG, GERMANY.

POCKET-KNIFE.

SPECIFICATION forming part of Letters Patent No. 456,811, dated July 28, 1891.

Application filed March 28, 1891. Serial No. 386,820. (No model.)

To all whom it may concern:

Be it known that I, CONSTANTIN GERLACH, master of the forest, of Trachenberg, in the Kingdom of Prussia, have invented new and useful Improvements in Knives, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to pocket-knives such as are used by sportsmen, and these improvements consist in the combination and arrangement in the knife of a large blade, a cartridge-extractor, and a locking device. There may also be added to these the essential elements of the invention—a lead-pencil or an erasing-blade, a corkscrew, a pricker or toothpick, and a pair of tweezers.

Figure 1 represents an elevation of the knife; Fig. 2, an elevation with one of the sides of the handle removed, and Fig. 3 is a longitudinal section along the line *a b*, Fig. 1.

A is the large blade; B, the universal cartridge-extractor; C, the locking device; D, the pen or erasing-blade; E, a corkscrew; F, a pricker or toothpick, and G a pair of tweezers.

The blade A, the cartridge-extractor B, and the locking device C are mutually dependent and essential. Assuming the knife to be closed and the locking device C drawn back by means of its knob c', the cartridge-extractor may be pressed downward by the thumb, so as to exert a pressure upon the projection a' of the blade-spring, upon which the detent a^2 is formed, thus forcing the detent out of contact with the heel of the blade A. When the blade A is closed, its heel is in contact with the spring a^3. Consequently, when the cartridge-extractor is depressed, as hereinbefore described, and the detent is removed out of contact with the heel of the blade, the spring a^3 forces the blade open, whereupon the pressure on the extractor B being released the detent engages with a recess formed in the heel of the blade A, which is thus locked, as shown in Fig. 2. The locking device C is now pushed back into its former position, as represented in Fig. 2, bringing the slide c^2 under the notch b' formed in the extractor B, so that the latter can no longer be caused to press upon the projection a' of the blade-spring. This arrangement prevents the accidental closing of the blade A, and the locking-bolt c^2 is prevented from accidentally moving, by means of the sliding spring c^3. The knife may thus be carried with an absolute certainty that the blade A cannot be accidentally closed or opened.

The universal cartridge-extractor B, which acts as a lever, as hereinbefore described, has for its further principal use the extraction of central-fire cartridges, for which purpose the segmented recess b' b^2 is forced in front of the extractor and in use is inserted under the rim of the cartridge. A hole b^3 and a groove b^4 may also be formed in the extractor for the purpose of extracting Lefancheur cartridges by their pins. Broken cartridges may be extracted by the wedge-like edge b^5 b^6, which part of the extractor may also be used as a screw-driver, a knot-opener, a champagne-opener, a tree-marker, and for other purposes. The back of the extractor may be serrated or cut as a file, as shown at b^7, when it will afford a firmer grip for the finger, and may be used for various purposes, as is well understood.

What I claim, and desire to secure by Letters Patent of the United States, is—

1. A pocket-knife in which the main blade is disengaged by means of a second blade and in which the accidental release of the main blade is prevented by a locking device, constructed and arranged substantially as hereinbefore described.

2. In a pocket-knife, the combination and arrangement of a main blade with a blade-spring having a projection thereon, a second spring, such as a^3, for opening the blade, a second blade, such as B, capable of being pressed upon the projection on the blade-spring, and a locking device, substantially as hereinbefore described and as illustrated by the accompanying drawings.

3. In a pocket-knife, the combination of a main or spring blade A and its spring having a projection and detent, a cartridge-extractor B, capable of actuating the spring of the blade A, and a second spring, such as a^3, for opening blade A, substantially as hereinbefore described.

4. In a pocket-knife, the combination and arrangement of a main or spring blade, such as A, and its spring having a projection and

detent with a second blade adapted to actuate said spring and main blade, and a locking device to prevent the accidental release of the main blade, substantially as hereinbefore described.

5. In a pocket-knife, a universal cartridge-extractor blade provided with a segmental recess, such as b^2, the hole and groove b^3 b^4, and a wedge-like end, substantially as and for the purpose described.

6. In a pocket-knife, the combination and arrangement of a spring-blade, such as A, and its spring having a projection, with a cartridge-extractor B, having a notch b', and a locking device C, adapted to fit in said notch, substantially as and for the purpose described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

CONSTANTIN GERLACH.

Witnesses:

PAUL FISCHER,

W. BINDEWALD.