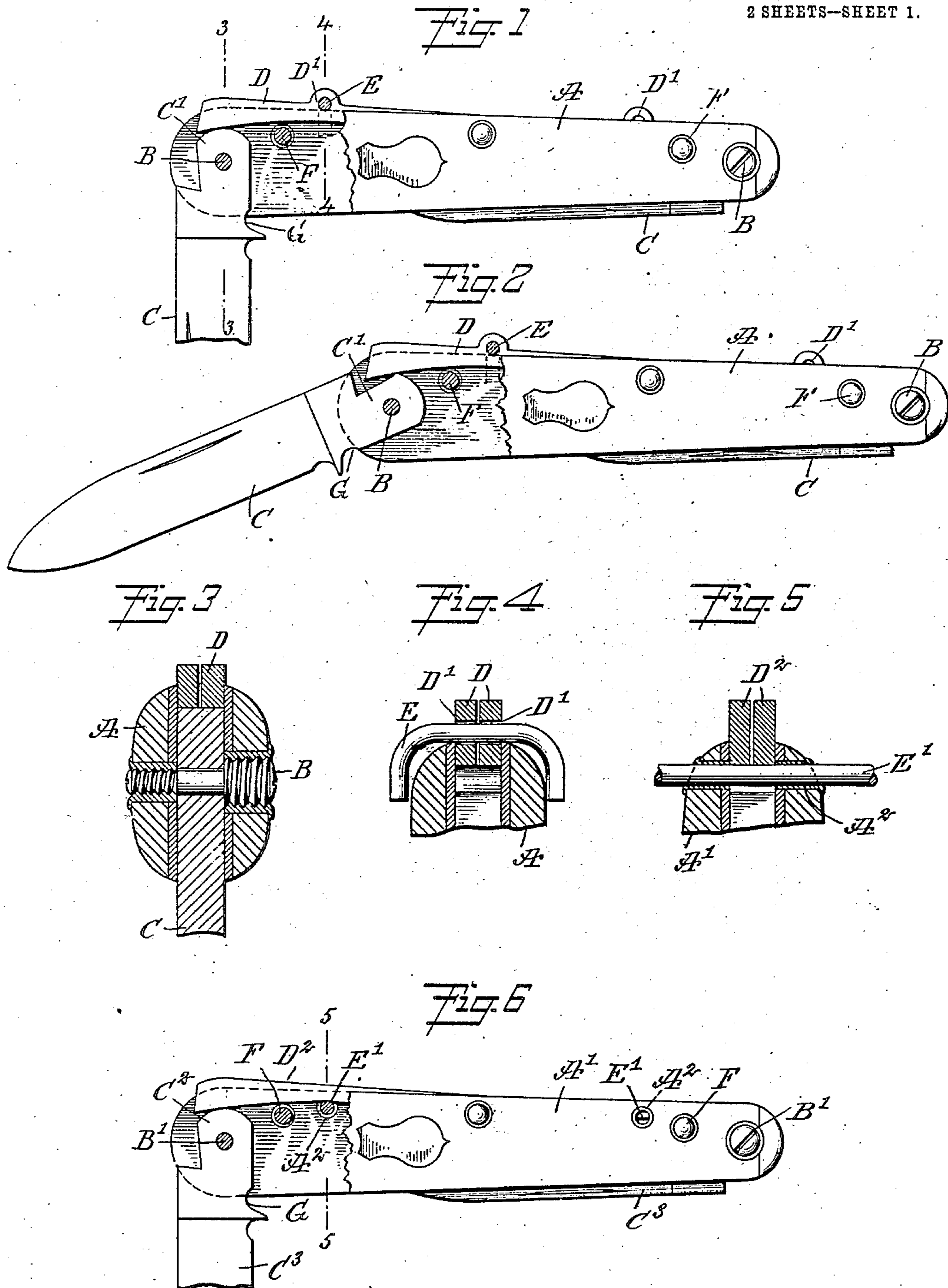


R. L. GUTHRIE.
POCKET KNIFE.
APPLICATION FILED MAR. 11, 1908.

903,709.

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2 SHEETS—SHEET 1.



WITNESSES
E. G. Bromley.
Rev. J. H. Hester.

INVENTOR
Robert L. Guthrie
BY *Mum & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

ROBERT L. GUTHRIE, OF SKAGWAY, DISTRICT OF ALASKA.

POCKET-KNIFE.

No. 903,709.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT L. GUTHRIE, a citizen of the United States, and a resident of Skagway, in the District of Alaska, have invented an Improvement in Pocket-Knives, of which the following is a full, clear, and exact description.

The invention relates to pocket knives, and its object is to provide a new and improved handle for interchangeably holding all sorts of knife blades, screw drivers, manicure implements, etc., and arranged to permit convenient and quick removal of a tool and the insertion of another.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improvement, parts being in section; Fig. 2 is a similar view of the same with the parts in position for removal of one of the knife blades; Fig. 3 is an enlarged transverse section of the improvement on the line 3—3 of Fig. 1; Fig. 4 is a similar view of the same on the line 4—4 of Fig. 1; Fig. 5 is a cross section of a modified form of the improvement, taken on the line 5—5 of Fig. 6; Fig. 6 is a side elevation of the same, parts being in section; Fig. 7 is a side elevation of a modified form of the improvement, parts being broken out; Fig. 8 is a similar view of another modified form of the improvement, parts being broken out, and Fig. 9 is an enlarged cross section of the improvement shown in Fig. 7, the section being on the line 9—9 of Fig. 7.

The handle A, as illustrated in Figs. 1, 2 and 3, is provided near each end with a removable pivot B, on which is mounted to swing the heel C' of a tool C, in the form of a knife blade or other implement pressed on at the heel by the free end of a spring or springs D attached to the handle A in the usual manner. The spring or springs D are provided with transverse apertures D' adapted to be engaged by a pin or key E at the time the free end of the spring D is raised by the heel C' of the tool C, as shown in Fig. 1, that is, when the tool C has been swung into a half open position and stands

at right angles to the handle A, as indicated in Fig. 1. Now when the free end of the spring D is raised then its opening D' is above the back of the handle A, and consequently when the pin or key E is now passed through the hole D' then the pin or key rests on the back of the handle A and thus holds the spring D against closing when swinging the tool C into a complete open position. When the tool C is swung into the open position, then the operator can conveniently remove the pivot B with a view to detach the tool C and allow the use of another tool constructed with a heel similar to the one of the tool C, shown and described. This second tool can be placed in position on the handle and engaged by the pivot B, to allow the operator to swing this tool into a right-angled position relative to the handle A, to engage the free end of the spring D and allow the user to remove the pin or key E. When this takes place, the tool C is again spring-pressed and can be used for its legitimate purposes. The pivot B is preferably in the form of a screw rod screwing in the handle A and having its middle portion non-threaded for the tool C to swing on, as plainly indicated in Fig. 3. The ends of the pivot B are both threaded to screw in the sides or jaws of the handle A, each end having a slot for the application of a screw driver, to screw the pivot in place or to unscrew it from either end.

In order to strengthen the knife handle, use is made of a solid rivet F, adjacent to the pivot B and rigidly connecting the sides or jaws of the handles with each other. The blade C is provided with a cut-out portion G to fit the rivet F when the blade is closed.

As illustrated in Figs. 5 and 6, the handle A' is provided with transverse apertures A² for the insertion of a pin or key E', adapted to engage the under side of the spring or springs D², at the time the free end thereof is raised by the heel C² of the tool C³, swung into a right-angled position relative to the handle A'. Thus the free end of the spring D² is held in a raised position, to allow convenient removal of the pivot B' from the handle A', with a view to detach the tool C³ and then replace the latter by another tool, as previously explained.

In the modified form shown in Figs. 7 and 9, two knife blades H, H are fulcrumed on the same pivot I screwing in the jaws of the

handle J, the heels H' of the knife blades being pressed on by springs K attached to the handle J. The springs K can be locked when raised by the heels H', by the use of a transverse pin L inserted through registering apertures J' in the sides of the handle J and in the division plate J². The solid rivet N at each end of the handle J, serves to reinforce the handle and is adapted to be engaged by recesses N' formed on the knife blades H.

In the modified form illustrated in Fig. 8, the spring O is locked when raised by the heel P' of the knife blade P, by a pin Q passing through registering apertures in the handle R and the said spring O. The handle is reinforced at each end by the solid rivet S, adapted to be engaged by a recess P² in the knife blade P, which latter is mounted to swing on the screw pivot P³ similar to the pivots above described.

From the foregoing it will be seen that in all cases use is made of a removable screw pivot, a solid reinforcing rivet and a key or pin engaging the handle and the spring, for holding the latter temporarily in a raised position, to allow convenient removal of the tool and the replacing of the same by another.

In practice it may prove of advantage to mark the handle and the interchangeable tools with corresponding characters, to allow a wide range of interchangeable tools with the same handle.

The handle shown and described is very simple and durable in construction, and requires but little skill in interchanging tools of various kinds, having the same kind of heel as the one shown and described. Thus dull knife blades can be readily interchanged for sharp ones, and other tools, such as screw driver shanks, may be attached to the handle in place of a knife blade.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A pocket knife, comprising a handle, a blade, a spring held on the handle and adapted to press the said blade, and moved by the latter into a raised position, and independent

means for locking the spring in the raised position.

2. A pocket knife, comprising a tool blade, a handle having a removable pivot for the tool blade to swing on, a spring on the said handle and adapted to engage and press the heel of the said tool blade, the latter being adapted to raise the spring, and independent means for holding the spring in the raised position.

3. A pocket knife, comprising a tool blade, a handle having a removable pivot for the tool blade to swing on, a spring on the said handle and adapted to engage and press the heel of the said tool blade, the latter being adapted to raise the spring, and a pin adapted to hold the spring in the raised position.

4. A pocket knife, comprising a tool blade, a handle having a removable pivot for the tool blade to swing on, a spring on the said handle and adapted to engage and press the heel of the said tool blade, the latter being adapted to raise the spring, and a pin for engagement with the handle and with the said spring, to hold the latter in the raised position.

5. A device of the class described comprising a handle, a pivot, a tool mounted on the said pivot, a spring pressing the said tool, and a solid rivet rigidly connecting the sides of the handle with each other adjacent to the said pivot, the said tool having a recess for engaging the said solid rivet when the tool is closed or folded in the handle.

6. A device of the class described, comprising a handle, a tool, the handle and the tool being provided with registering openings, and a pivot traversing the openings, said pivot having its ends screw threaded, and its central portion plain for the tool to swing upon the screw threaded ends being threaded into the handle.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ROBERT L. GUTHRIE.

Witnesses:

GEORGE WOODBURN,
BENJAMIN R. CULBERTSON.