



Novelty Search Report (Sample)

Knife combination Tool

Client Reference Number: **XXXX**

Report Date: May 03, 2018

Client name:

Firm name:

We have conducted a novelty search per your requirement.

The search includes the following aspects:

- A combination of Knife, scissor and a cap opener as one component. The combination includes a handle for holding a pair of blades which are pivotally connected.

Summary:

- ✓ We found 4 patent and 1 non-patent literature references, which are placed in the order of relevance.

1. Search Details

- ✓ **Latest Date of search:** May 03, 2018
- ✓ **Period of Search:** All Years
- ✓ **Databases used:**
 - **Patent:** USPTO, WIPO, EPO, JPO, Orbit, Derwent Innovation, PatSeer, Google patents
 - **Non-patent:** Research Gate, Springer, Wiley Online Library, Google Scholar, Google
- ✓ **Data searched:** World-wide patents/publications and non-patent literature

1.1. Important concepts searched

The following important concepts and related keywords have been used in the search with appropriate logical combinations using Boolean and Proximity operators as well as truncation symbols as required.

S. No.	Concept	Keywords
1	Knife/Scissor/Opener	Knife, cutter, blade, scissor, chipper, peeler, opener
2	Combination	Combination, kit, multiple, group
3	Handle	Handle, gripper, body, holder
4	Pivot	Pivot, hinge, fulcrum, joint

Note: The details of the patent classification codes used in the search have been listed in **Annexure 1**.

2. Related Patent References

The following patent references have been considered as relevant to the requirement.

S. No.	Patent/Publication No.	Title	Publication Date	Assignee/Applicant	Inventors
1	US6289768B1	Multipurpose folding tool including corkscrew	09/18/2001	Leatherman Tool Group, Inc.	Craig J. Anderson Benjamin C. Rivera
2	US20020069729A1	Hand/survival tool having multiple implements	06/13/2002	Wayne Anderson, Paolo Cassutti	Wayne Anderson Paolo Cassutti
3	US6223372B1	Combination carabiner and tool device	05/01/2001	Launce R. Barber	Launce R. Barber
4	JP11047459A	Pocket Knife	02/23/1999	Fukuda Takao	Fukuda Takao

2.1. Abstract, drawings and other relevant portions for the above patent list

The relevant portions of the patents have been highlighted in *italic*.

1. US6289768 B1

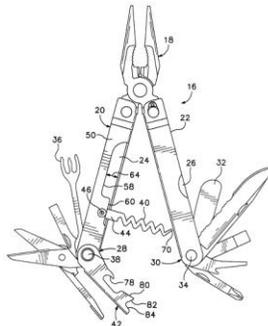
Title: Multipurpose folding tool including corkscrew

Issue/Publication Date: 09/18/2001

Abstract:

*A multipurpose folding tool, for use by picnickers and travelers, including a corkscrew, a crown cap remover, and a can opener, as well as a small fork and a small butter knife both the corkscrew and a brace for use together with it fit close to the handles of the tool when the tool is in a compact, folded configuration a spring in one handle keeps the corkscrew safely folded when not in use, and a spring on the brace keeps it in a desired position relative to the handles **the tool also includes folding pliers and may include folding screwdrivers, knife blades, and scissors.***

Important Drawings:



From Description:

(Ref: Column: 3, Lines: 1 - 17)

A plurality of other tools are mounted in the handles 20 and 22 at the opposite, outer ends 28 and 30 thereof, spaced apart from the pliers 18. Tool blades including a knife 32, such as a butter or



pate knife, a sharp-edged knife, and three screwdriver bits are all mounted for rotation independently about a pivot shaft 34 in the handle 22, between a folded position for storage within the cavity 26 and an extended position with respect to the handle 22. Similarly, a tool blade such as a small fork 36 is mounted rotatably on a pivot shaft 38, alongside another screwdriver blade and a folding scissors, all of which can be moved independently about a pivot axis defined by the pivot shaft 38, between a folded position within the cavity 24 and an extended position with respect to the handle 20. With all of those tools folded, room still remains for the pliers 18 also to be enclosed within the cavities 24 and 26, with the open sides of the channel-shaped handles facing toward each other.

(Ref: Column: 6, Lines: 8 - 16)

With the brace 42 in the extended position as shown in FIGS. 6 and 10, **the multipurpose folding tool 16 may also be used to remove a crown cap 140 from a bottle 142.** Preferably, both of the hooks 78 are used to engage the edge of the crown cap at the same time, so that both the rocker 94 and the can opener blade 80 rest atop the crown cap 140, and the inner ends of the handles 20 and 22 are then raised, keeping the hooks 78 engaged to pull the crown cap 140 free from the bottle 142.

2. US20020069729 A1

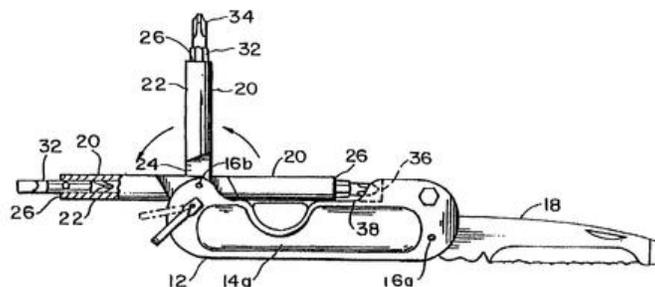
Title: Multi-tool pliers with stored pivotable multiple tool bit driver tool

Issue/Publication Date: 06/13/2002

Abstract:

A hand tool has a pliers with pivotably disposed handles with one handle having a closed ended sleeve pivotably connected to one handle head for removably operably receiving tool with the sleeve non-removably bits pivoting 180° from an inoperable position between the handle sides to an operable position, and the other handle has a plurality of bladed tools pivotably connected to the other handle end.

Important Drawings:



From Description:

(Ref: Page: 4, Para: 0060)

The other handle 56 is suitably equipped with any number of other pivotable tools, such as knives, bottle openers, screwdrivers, ruler-file, serrated saw, blade, scissors, awl-punch, fish scaler, can opener, Phillips or slotted screwdriver and the like. As shown therein, the four tools are a bottle opener/flat screwdriver, another flat blade screwdriver, file and awl-punch.

3. US6223372 B1

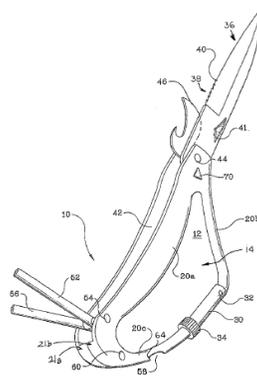
Title: Combination carabiner and tool device

Issue/Publication Date: 05/01/2001

Abstract:

A combination carabiner and tool device comprises a curvilinear handle and a lockable gate to form a loop. In the handle is a folding knife and additional useful tools at both ends. A push button lock releasably holds the knife blade in the blade open position. The knife blade is pivoted into position and releasably locked by manipulation with the user's thumb.

Important Drawings:



From Description:

(Ref: Column: 4, Lines: 1 - 19)

Two additional optional tools are shown in FIG. 1. **A generic tool 52 is shown pivotally mounted on second pivot pin 54, as is a generic tool 56. Each tool 52 and 56 pivots about a second pivot pin 54 between an open tool position as shown in FIG. 1 and a closed tool position shown in FIG. 2, in which they are contained in elongated slot 42.** The width of elongated slot 42 is defined by the number and size of tools contained therein in the closed position. **Tools 46, 52 and 56 can be selected from a group of tools which are useful to have at hand including a second knife blade, a bottle cap opener, a can opener, a saw, a flat head screw driver, a Phillips head screwdriver, an Allen wrench, a claw-shaped ripping hook tool, pliers, and scissors.** In particular, the combination of a knife blade 40 and tool 46 selected as a can opener has been found to be useful. In another embodiment, the combination of a knife blade 40 and a tool 46 as a can opener with tool 52 and tool 56 selected as a flat head screwdriver and a Phillips head screw-driver has been found to be especially useful and handy.

4. JP11047459 A (Machine translated text)

Title: Pocket Knife

Issue/Publication Date: 2/23/1999

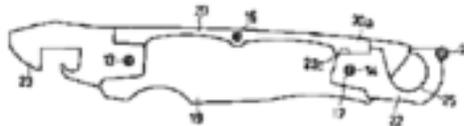
Abstract:

PROBLEM TO BE SOLVED: To provide a **pocket knife having a hook** which is used when it is held and brought and which can be folded onto and accommodated into a handle. SOLUTION: A hook 22 which also serves as a **cap opener** has a through-hole 14 formed in the proximal end part thereof and serving as an attaching hole. A shaft pin 17 is inserted in the through-hole 14, and the hook 22 is journaled to the pin 17 so as to be rotatable around the pin 17. A back plate 20 maintains an abutting relationship with the



hook 22. Thus, when the hook 22 is opened from an accommodated condition, an attaching hole 25 is defined by the hook 22 and a handle. A part of a garment or the like is inserted in the hole 25.

Important Drawings:



From Description:

The embodiment which materialized this invention is described based on drawing 1 - drawing 5. As shown in drawing 1 and drawing 2, **the both side surfaces of the handle 10 of a pocket knife** are covered with the decorative sheet 11 of the almost same form that consists of plastics etc. The side board 12 is close to the medial surface of both this decorative sheet 11, respectively and it is arranged, and the bores 13, 14, and 15 are drilled in the front end part of both the decorative sheets 11 and the both-sides board 12, the rear end part, and the central upper bed part, respectively. The axial pins 16, 17, and 18 are inserted in these bores 13, 14, and 15, respectively. Both the decorative sheets 11 are concluded by the both-sides board 12, respectively by carrying out caulking attachment of these axial pins 16, 17, and 18.

The function of the cap opener is given to said hook 22. For this reason, the improvement is functional as a pocket knife can be attained, without increasing component mark. This embodiment may be carried out in the following modes.

3. Non-Patent Literature

Disclaimer: In case any non-patent literature full text copies have not been provided, providing the full text document(s) may involve additional charges, and will be done so only upon request and acceptance of the payment of the charges.

3.1. Title: Gerber Multi-Plier 600 Pro Scout with Tool Kit 07564

URL: <http://www.gerber-tools.com/Gerber-Multi-Plier-600-Pro-Scout-with-tool-kit-07564.htm>

Published/Accessed: 02/22/2017

Important Drawings:



From Description:

Gerber Multi-Plier 600 Pro Scout with Tool Kit 07564 Description:

Multi-Plier 600 - Pro Scout Needle nose Stainless, w/ Tool Kit, Sheath. **The Gerber Multi-Plier 600 Pro Scout is the top of the line in the Multi-Plier 600 series. This versatile tool features all stainless steel hardware for durability and our patented one hand opening plier jaws - open with a flick of the wrist.** The Pro Scout has a wide range of fully functional tools; including Fiskars scissors so tough they can cut through seatbelts and a patented saw coupler with premium RemGrit saw blade. **Additional tools include; needle nose pliers, saw blade, scissors,** medium and small screwdrivers, crosspoint screwdriver, **half serrated drop point knife blade, bottle opener, can opener,** and a Simonds fine and coarse file. All tool components lock open with our patented SAF-T PLUS locking system - the safest, strongest, most durable lock available. Tool kit adds six screw driver bits-three flathead and three cross point-and tool adapter.



4. Please let us know

Thank you for choosing Legal Advantage to perform your prior art search/project. We would be pleased to provide further assistance if you have any questions regarding the results. I trust the search is to your satisfaction. Any feedback you might share is important to us and greatly appreciated!

**Best Regards,
Legal Advantage Research Team**

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Annexure 1 Classification Codes

The details of the patent classification codes used in the search are given in the following sections.

Details of CPC Codes used

<http://worldwide.espacenet.com/classification#!/CPC=/>

B25F - Combination or multi-purpose tools not otherwise provided for; details or components of portable power-driven tools not particularly related to the operations performed and not otherwise provided for

B25F 1/00 - Combination or multi-purpose hand tools

B25F 1/003 - .of pliers`, scissors` - or wrench-type with at least one movable jaw

B25F 1/02 - .with interchangeable or adjustable tool elements

B25F 1/04 - .Wherein the elements are brought into working positions by a pivoting or sliding movement

B25G - Handles for hand implements

B25G 1/00 - Handle constructions

B25G 1/04 - .telescopic; extensible; sectional

B25G 1/043 - .for screwdrivers, wrenches or spanners

B26B - Hand-held cutting tools not otherwise provided for

B26B 11/00 - Hand knives combined with other implements, e.g. with corkscrew, with scissors, with writing implement

B26B 11/003 - .having folding handles

F16B - Devices for fastening or securing constructional elements or machine parts together, e.g. nails, bolts, circlips, clamps, clips, wedges, joints or jointing

F16B 45/00 - Hooks; eyes

F16B 45/02 - .hooks with a pivoting or elastically bending closing member

F16B 45/04 - .hooks with a sliding closing member

Details of US Patent Classification Codes used

<http://www.uspto.gov/go/classification/>

7 - Compound tools

7/118 - Pocketknife type

7/125 - Plier type

7/127 - .with tool or plier handle

7/128 - .with tool pivoted to plier

7/151 - Receptacle opener or closure remover

7/155 - .corkscrew

7/158 - Cutter combined with other tool or tools

81 - Tools

81/3.07 - Receptacle closure remover

81/3.09 - .combined or plural

81/3.35 - .movable into or over handle

81/3.45 - .screw type



81/52 - Wrench, screwdriver, or driver therefor
81/436 - .having work engaging and force exerting portion inserted into cavity
81/439 - ..Including discrete, separately usable inserted portions
81/440 - ...pivotally or rotatably mounted

Details of IPC-8 Codes used

<http://web2.wipo.int/ipcpub/#refresh=page>

B25F - Combination or multi-purpose tools not otherwise provided for; details or components of portable power-driven tools not particularly related to the operations performed and not otherwise provided for

B25F 1/00 - Combination or multi-purpose hand tools

B25F 1/02 - .with interchangeable or adjustable tool elements

B25F 1/04 - . .wherein the elements are brought into working position by a pivoting or sliding movement

B25G - Handles for hand implements

B25G 1/00 - Handle constructions

B25G 1/04 - .telescopic; extensible; sectional

B67B - Applying closure members to bottles, jars, or similar containers; opening closed containers

B67B 7/00 - Hand- or power-operated devices for opening closed containers

B67B 7/44 - .combination tools, e.g. comprising cork-screws, can piercers, crown-cap removers

F16B - Devices for fastening or securing constructional elements or machine parts together, e.g. nails, bolts, circlips, clamps, clips or wedges; joints or jointing

F16B 45/00 - Hooks; eyes

F16B 45/02 - .hooks with pivoting closing member

F16B 45/04 - .hooks with sliding closing member