(No Model.)

# A. SCHLIEF.

## KNIFE.

No. 432,770. Patented July 22, 1890.

*Fig. 1.*

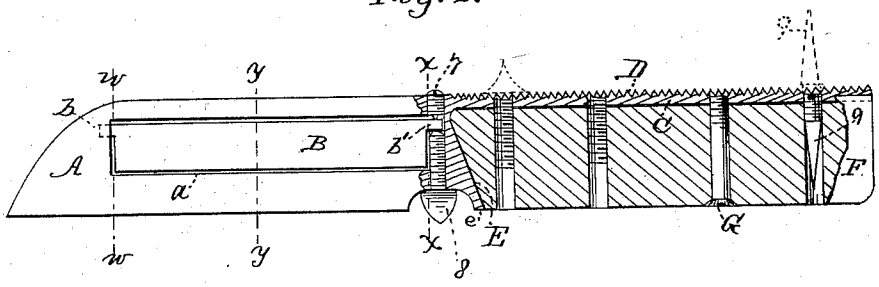



*Fig. 2.*

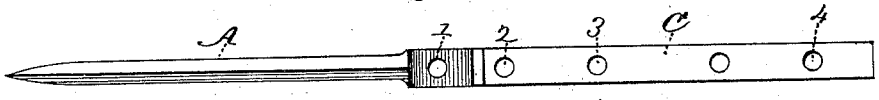



*Fig. 3.*

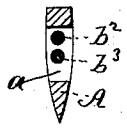



*Fig. 4.*

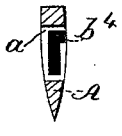



*Fig. 5.*

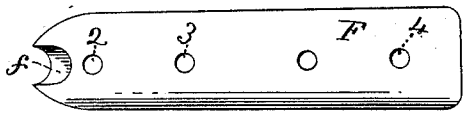



*Fig. 6.*




*Fig. 7.*




*Fig. 8.*

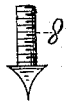
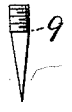



*Fig. 9.*

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

# UNITED STATES PATENT OFFICE.

ALBERT SCHLIEF, OF WESTPHALIA, MISSOURI.

## KNIFE.

SPECIFICATION forming part of Letters Patent No. 432,770, dated July 22, 1890.

Application filed April 16, 1890. Serial No. 348,259. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT SCHLIEF, a citizen of the United States, residing at Westphalia, in the county of Osage and State of Missouri, have invented certain new and useful Improvements in a Combination Kitchen-Knife; 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 letters and figures of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation of a kitchen-knife, partly in section, embodying my invention. Fig. 2 is a bottom view of the knife blade and shank. Fig. 3 is a cross-section on the line *w w* of Fig. 1. Fig. 4 is a cross-section on the line *x x* of Fig. 1. Fig. 5 is a bottom view of the knife-handle, showing the inclined or under cut to receive the heel of the blade. Fig. 6 is a cross-section on the line *y y* of Fig. 1, showing the relative positions of the auxiliary and the main knife-blades when used as a peeler or slicer. Figs. 7, 8, and 9 are elevations of particular forms of screws used in my device.

My invention relates to that class of useful instruments in which one tool is so constructed as to be adapted to take the place of two, three, four, or more distinct and separate tools for culinary work.

The invention consists of a kitchen-knife of novel construction, as hereinafter described, and particularly pointed out in the claims.

A is a knife-blade, of any convenient size and shape, having an opening or slot *a* cut through said blade, in which is pivotally hung an auxiliary knife-blade B.

*b b'* are pivots, supporting knife B within blade A.

$b^2$ $b^3$ are holes or recesses in the forward end of opening *a*, and $b^4$ is an L-shaped recess in the rear end of opening *a*, to receive the pivots supporting auxiliary blade B.

C is the shank of blade A. It extends back from the top of the blade to the end of the handle and on top of the same, as shown in Fig. 1.

D is a series of serrations on the top of the blade-shank C, which extend the entire length of the shank.

E is the heel of blade A. It projects inwardly at its bottom part *e*, so as to fit into the under-cut portion *f* of handle F.

G is a screw passing through handle F and screwing into shank C. By this arrangement one screw only is necessary to unite firmly together the blade and handle of my improved knife.

1, 2, 3, and 4 are a series of holes passing through the shank and handle, for the reception of screws 8 and 9, as shown in Fig. 1. The longer or right-hand pivot *b'* of auxiliary blade B has countersunk recesses adapted to receive the pointed end 7' of set-screw 7, so that, when desired, the blade B may be secured in the position shown in Fig. 6. When thus set we have a peeler, and if set a little farther open we have a slicer, said slicer being adjustable, so as to cut slices of different thicknesses, according to the substance to be cut.

The serrated back of the knife-shank is a nutmeg-grater.

To use my device as a can-opener, invert screw 9 in its hole 4 on the back of the knife, as shown by dotted lines in Fig. 1, and insert screw 8 into hole 2 on the back of the knife, as shown in same figure. Then punch the pointed end of screw 9 into the can-top, using said screw as a center, and press the cutting-edge of screw 8 through the can-top, and by pushing or pulling it make a circular cut in the can-top as far as desired. Screw 8 forms the lower support for pivot *b'* of auxiliary blade B. Set-screw 7 is adapted to be sunk lower when required, thus permitting the adjustment of pivot *b'* into alignment with the front end of blade B, when, to compensate for wear, it has been lowered to recess $b^3$.

From the above description it will be seen that my invention consists of a kitchen-knife, a variable peeler and slicer, a nutmeg-grater, and a can-opener, all in one instrument.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a knife, the combination, with the main blade, of an auxiliary blade, said auxiliary blade being entirely inclosed within a

slot in the main blade and adjustably secured thereto, substantially as described.

2. In a knife, the combination, with the handle thereof, of a pointed screw and an adjustable cutter, as and for the purpose herein described.

3. In a knife, the combination of the main blade, a serrated shank extending therefrom along the top of the handle and attached thereto, a pointed screw and an adjustable cutter, and an auxiliary blade entirely inclosed within the main blade, substantially as herein described.

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

ALBERT SCHLIEF.

Witnesses:
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