

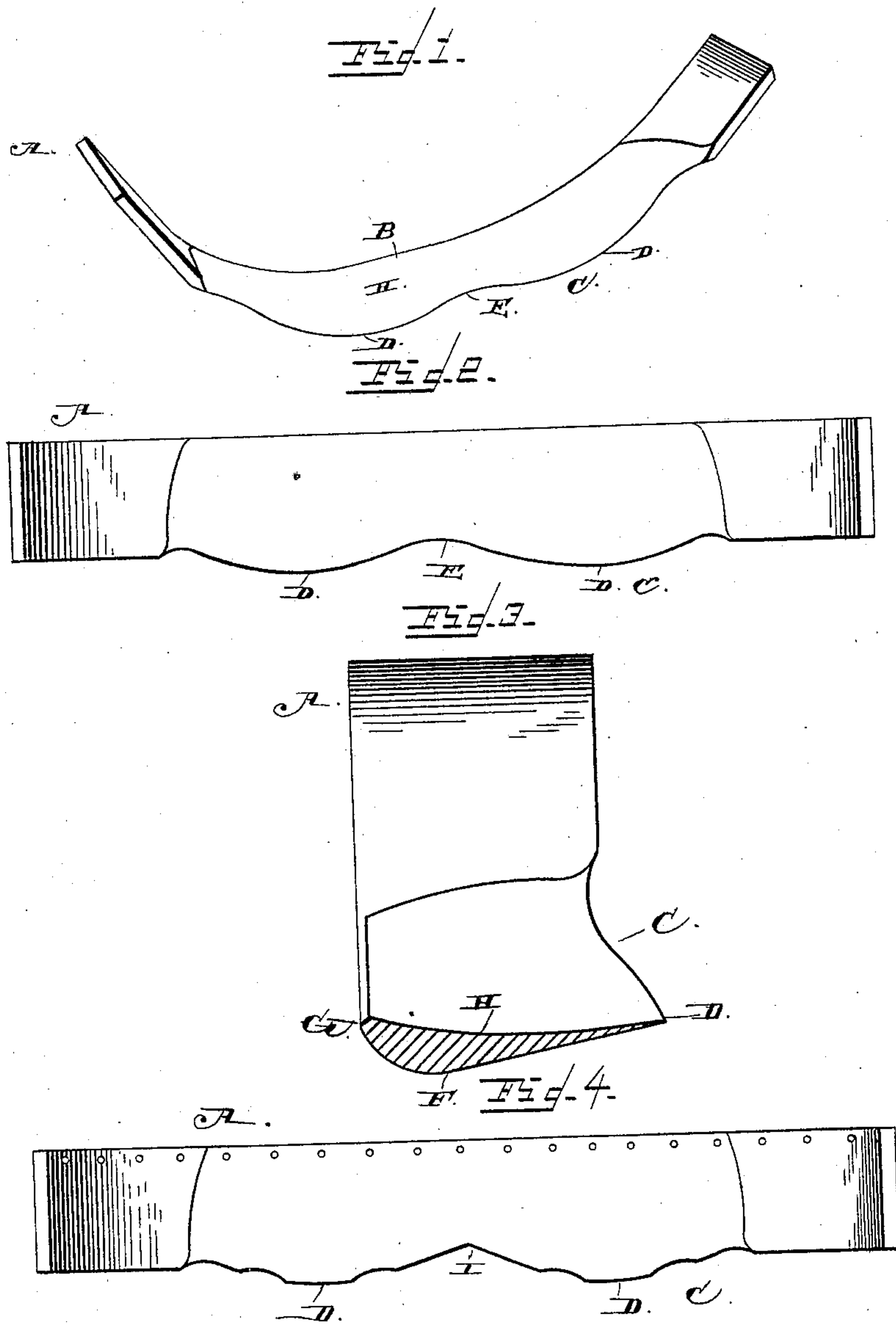
(Model.)

S. H. SMITH.

KNIFE FOR CUTTING DISH BLANKS.

No. 322,017.

Patented July 14, 1885.



WITNESSES

M. E. Fowler
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UNITED STATES PATENT OFFICE.

SETH H. SMITH, OF DELTA, OHIO, ASSIGNOR OF SIX HUNDRED AND FIVE ONE-THOUSANDTHS TO JACOB M. LONGNECKER AND HENRY S. HULL, OF SAME PLACE.

KNIFE FOR CUTTING DISH-BLANKS.

SPECIFICATION forming part of Letters Patent No. 322,017, dated July 14, 1885.

Application filed May 4, 1885. (Model.)

To all whom it may concern:

Be it known that I, SETH H. SMITH, a citizen of the United States, residing at Delta, in the county of Fulton and State of Ohio, have invented a new and useful Improvement in Knives or Cutters for Cutting Dishes from Wooden Blocks, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to an improvement in knives or cutters for cutting wooden dishes or plates from blocks; and it consists in a knife or cutter having the curved or indented cutting-edge, as will be more fully set forth hereinafter, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a cutting-knife embodying my invention. Fig. 2 is a plan view of the same. Fig. 3 is a transverse sectional view taken on the line *xx* of Fig. 2. Fig. 4 is a plan view of a modification.

A represents a rotating or oscillating cutting-knife, which may be operated by any suitable means or mechanism, which is not herein shown or described, as it forms no part of this invention. This cutting-knife is curved in the shape shown at Fig. 1, its central portion, B, being slightly flattened.

C represents the cutting-edge of the knife, which has the outwardly-extending curves D at the ends of the cutting portion of the knife, the curves D being connected by the central inwardly-curved portion, E. By having the cutting-edge of the knife provided with the inwardly-extending central curve, E, the end portions of the edge are adapted to cut a little in advance of the central portion thereof, and thus prevents too great a strain being imposed on the fragile wooden dish or plate that is being cut from the block, and thereby avoids breaking out one edge of the dish or plate, which would result if the cutting-edge were straight. As the knife is shaving the dish or plate from the block, the outwardly-curved end portions of the edge brace and strengthen the vessel against the block, while its remaining unsevered portion is being cut by the inwardly-curved central portion of the edge.

The outer side of the cutting-knife is beveled or curved from the point F near its rear edge to the cutting-edge, and is curved rearwardly from the point F to the rear edge, G, of the knife, as shown. The inner side of the knife is concaved or hollowed out from the cutting-edge to the rear edge, as at H.

In Fig. 4 I illustrate a modified form of my knife or cutter, in which I substitute a substantially V-shaped indentation, I, for the central inwardly-curved portion, E. This V-shaped indentation gives equally as good a result in cutting the dishes or plates, but is more difficult to grind than the former, which is therefore preferred.

I do not desire to limit myself to the exact shape of the cutting-edge hereinbefore described, as it is evident that many modifications may be made therein without departing from the spirit of my invention.

Having thus described my invention, I claim—

1. A rotating or oscillating curved knife adapted for cutting dishes or plates from wooden blocks by a single pass of the knife, said knife having a serpentine or scalloped edge throughout its cutting length, the central portion of the same being curved inwardly, substantially as described.

2. A rotating or oscillating curved knife that is beveled or rounded on its outer side from near its rear edge to the cutting-edge, and concaved or hollowed on its inner side from the cutting-edge to the rear edge, substantially as described.

3. A rotating or oscillating curved knife adapted for cutting dishes or plates from wooden blocks by a single pass of the knife, said knife having the cutting-edge curved outwardly near its ends, and curved or indented inwardly at the center, the knife being, further, beveled or rounded on its outer side from near the rear edge to the cutting-edge, and concaved or hollowed on the inner side from the cutting-edge to the rear edge, substantially as described.

4. A rotating or oscillating curved knife adapted for cutting dishes or plates from wooden blocks by a single pass of the knife,

said knife having its cutting-edge formed on curved or indented lines, whereby a portion or portions of the cutting-edge will operate in advance of the inwardly curved or indented
5 portions thereof, for the purpose set forth, substantially as described.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in presence of witnesses.

SETH H. SMITH.

Witnesses:

E. G. SIGGERS,
G. B. HARRIS,
J. W. GARNER.