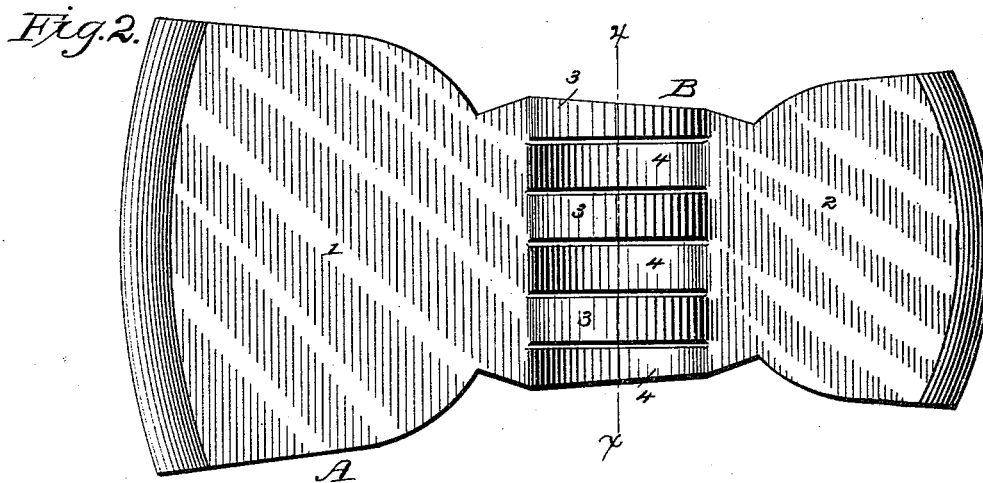
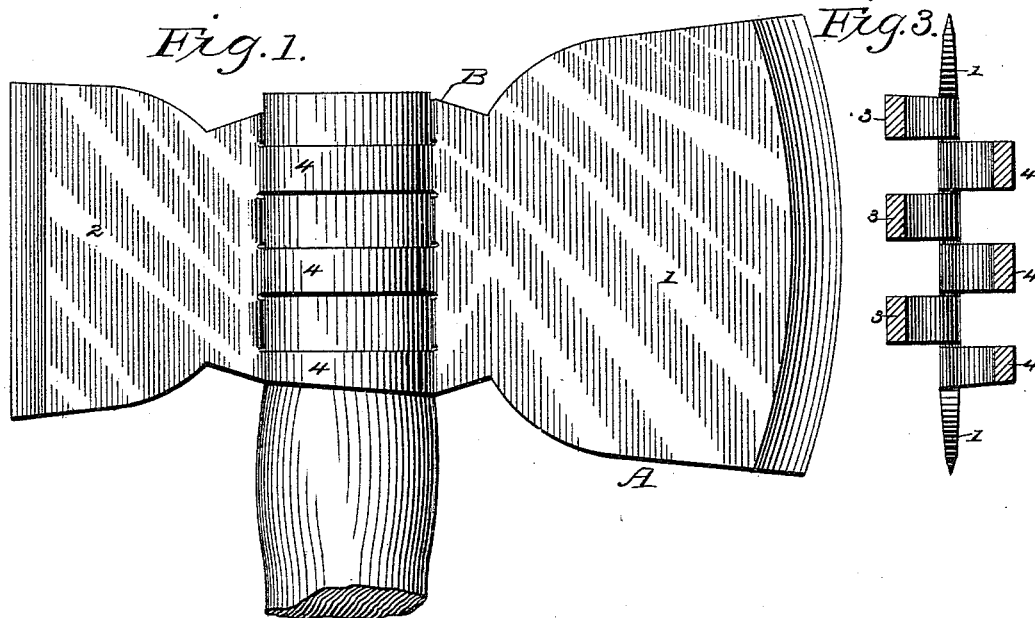


(No Model.)

S. ROGERS.  
HATCHET.

No. 420,104.

Patented Jan. 28, 1890.



WITNESSES

Wm. Messer.  
B. W. Sommer.

INVENTOR

Seth Rogers.  
by A. G. Kuyumjian  
Attorney.

# UNITED STATES PATENT OFFICE.

SETH ROGERS, OF BALLSTON SPRINGS, NEW YORK.

## HATCHET.

SPECIFICATION forming part of Letters Patent No. 420,104, dated January 28, 1890.

Application filed February 16, 1889. Serial No. 300,209. (No model.)

*To all whom it may concern:*

Be it known that I, SETH ROGERS, a citizen of the United States of America, residing at Ballston Springs, in the county of Saratoga and State of New York, have invented a new and useful Improvement in Hatchets, of which the following is a specification.

My invention has relation to improvements in hatchets; and the object is to provide an implement having a handle-eye of the particular construction hereinafter specified, whereby the implement or tool may be made from less stock and at less expense than heretofore attained.

My invention therefore consists in a hatchet as an improved article of manufacture, as hereinafter will be fully described, and specially as laid in the claim.

I have fully and clearly illustrated my invention in the accompanying drawings, wherein—

Figure 1 is a side view of my improved hatchet with the handle inserted. Fig. 2 is a side view of the hatchet with the handle removed. Fig. 3 is a central section through the eye of the hatchet, taken on the line  $x x$  of Fig. 2.

A designates the hatchet, the blank of which consists of a flat plate of suitable tool-metal formed to suit the size and weight of the intended tool. It has a blade-piece 1, as shown, sharpened as usual, and the poll 2.

At B is formed the eye, wherein consists the novel features of my invention. To con-

struct this part of the hatchet, the metal plate or blank is slit through in the direction of the length of the tool, and the strips thus made are bent outward alternately in opposite directions, as seen at 3 4, forming an eye to receive the handle. This eye may be formed by the insertion of a properly-shaped mandrel after the alternate strips have been struck outward. It will be perceived that the blank is of substantially uniform thickness, and that the eye is made without welding, so that the hatchet may be made from a flat blank slit, as stated, to form the eye, and then the eye completed by any means which will bend the strips alternately in opposite directions.

The handle is held with great firmness in the eye, as the strips thereof have a tendency to grip with a spring function the part inserted.

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

As an improved article of manufacture, a hatchet formed of a single flat blank of material A and having an eye B, formed integrally therewith, consisting of strips of the blank bent alternately in opposite directions, substantially as and for the purpose specified.

SETH ROGERS.

Witnesses:

JEROME SWART,  
GEO. A. SWART.