

*S. J. Raymond,*  
*Splitting Wood.*  
*No. 101041. Patented Mar. 22. 1870.*

Fig. 1.

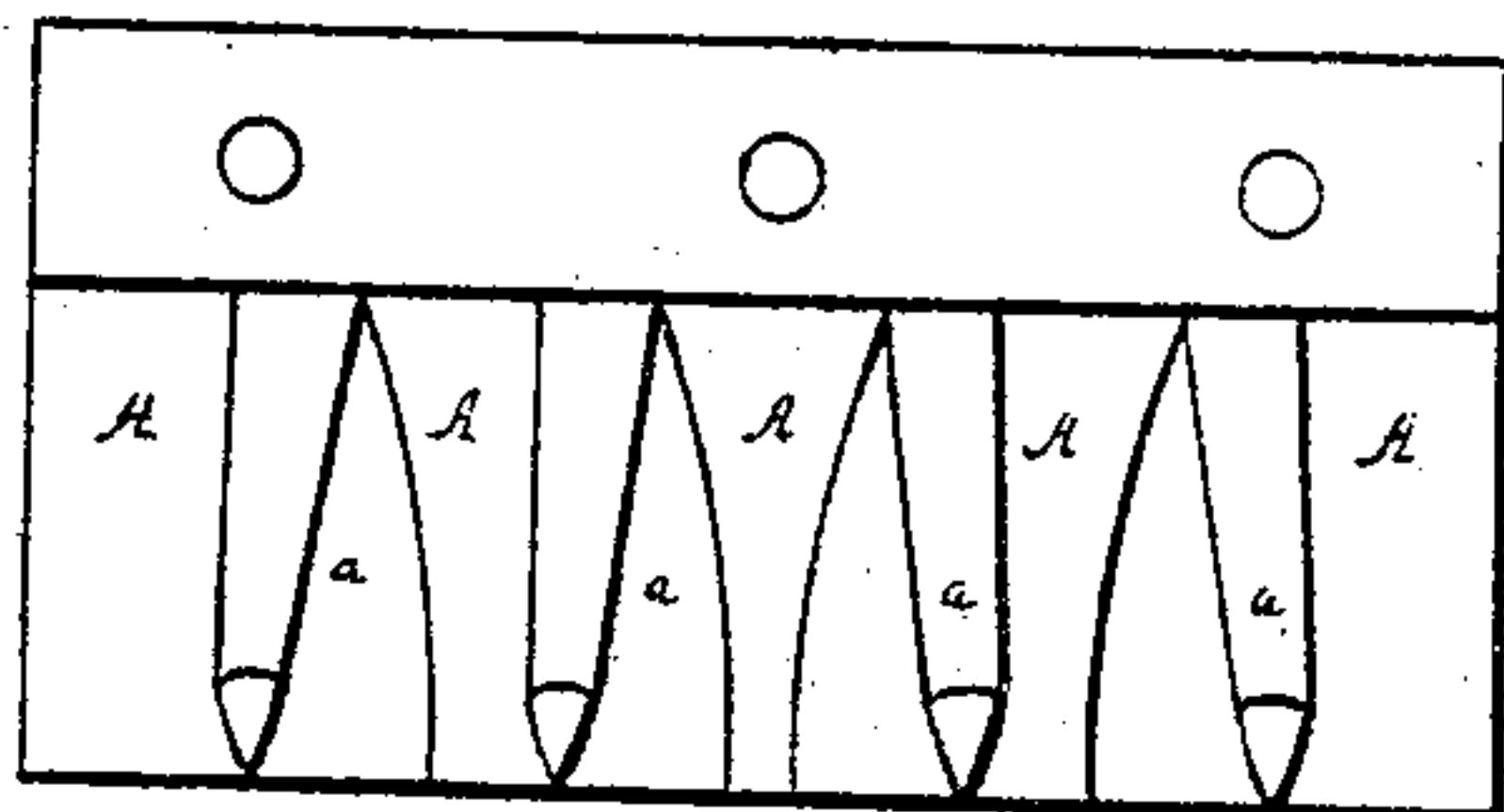


Fig. 2.

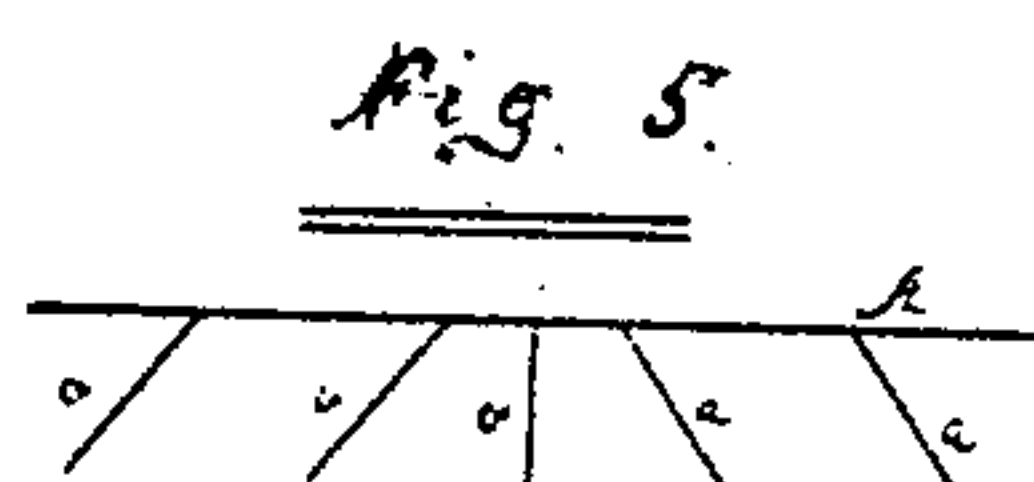
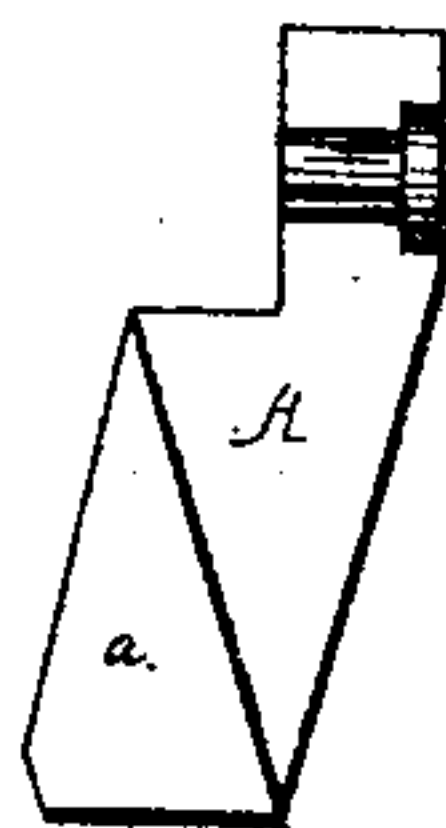
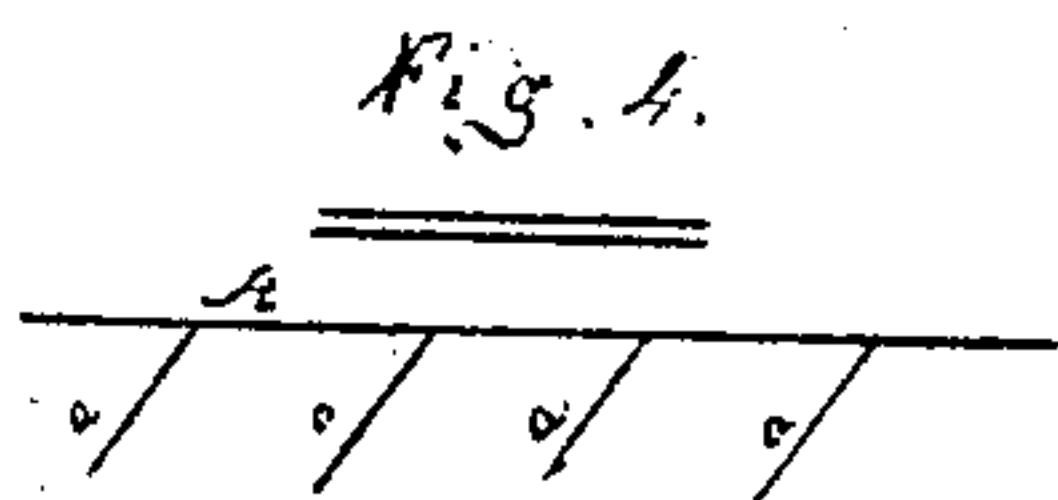
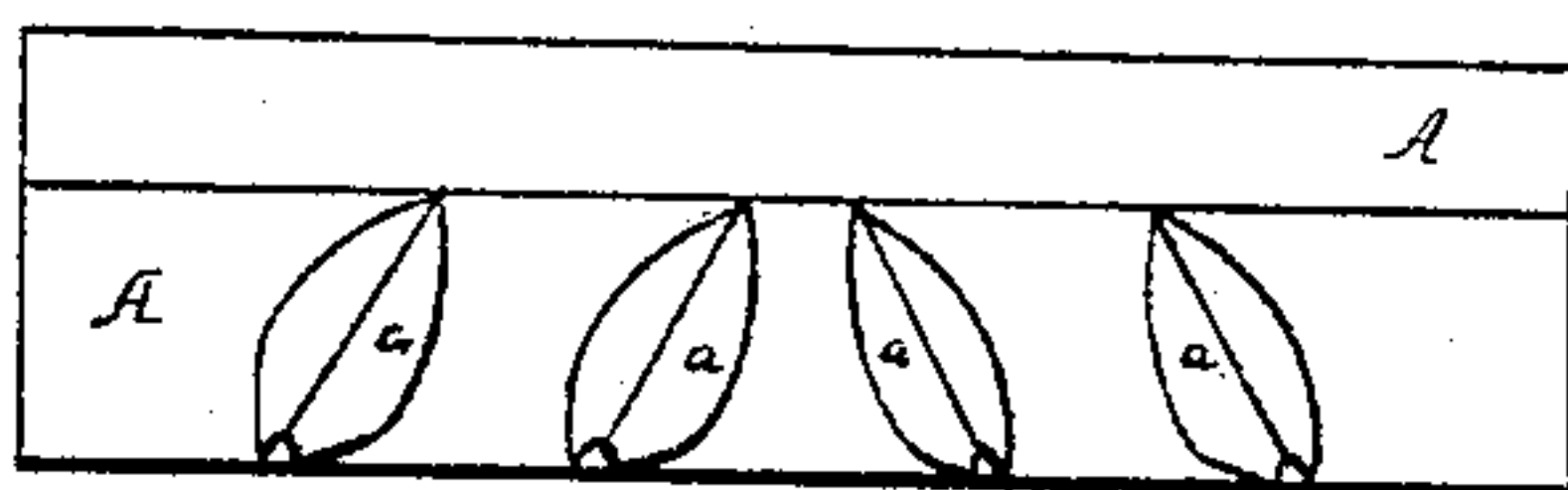


Fig. 3.



Witnesses

*R. R. Miffett*  
*W. A. Cook*

Inventor

*Samuel J. Raymond*

# United States Patent Office.

SAXON J. RAYMOND, OF BROOKLYN, NEW YORK.

Letters Patent No. 101,041, dated March 22, 1870.

## IMPROVEMENT IN KNIFE FOR SPLITTING WOOD.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, SAXON J. RAYMOND, of the city of Brooklyn, county of Kings and State of New York, have invented certain Improvements in Knife for Splitting Wood, of which the following is a specification.

My invention relates to that description of knives that is used for splitting wood for fuel; and

It consists in a combination of cutters, so constructed that the block of wood is split into several angular pieces at one operation.

It further consists in forming the cutters in one solid piece of metal, and also in the manner of arranging the lateral cutters with the slabbing cutter, so as to divide or split the wood into angular strips at one operation, and at the same time to free the cutters by forcing the strips of wood outward.

Figure 1 of the accompanying drawings represents a (front) side elevation of my improvement.

Figure 2 is a cross-section of the same, taken on the line *x x*, fig. 1.

Figure 3 is a plan view looking in the direction indicated by the arrow on fig. 1.

Figures 4 and 5 are plans showing the different modes of arranging the cutting-blades.

Similar letters of reference in the several figures indicate corresponding parts.

To enable those skilled in the art to make and use my invention, I will describe its construction and operation.

In the accompanying drawings—

A represents the slabbing cutter of the knife, having several cutting-flanges *a* on one side.

These flanges *a* are arranged with their cutting-edges on an acute or obtuse angle with the cutting-edge of the slabbing blade A, so as to split the block of wood into angular pieces.

The cutter A, with its flanges *a*, I make out of solid metal, either by casting or forging. It is then worked into shape and hardened ready for use. The flanges *a* are made thicker at their junction with the cutter A than at the outer edge, thus forcing the strip of wood outward in the act of splitting, and thereby freeing the knife in its operation; and the cutting-flanges *a* may be arranged upon the cutting-blade A so as to set at different angles, as represented in figs. 3 and 4, or if desired, a center cutting-flange may be placed at right angles with the knife A, as represented in fig. 5, but the arrangement shown in fig. 3, I prefer.

The operation of splitting the wood is as follows:

The knife, when forced into the block, cuts a slab therefrom, and at the same time the cutting-flanges *a* enter the slab, dividing it into the desired angular strips, ready for use.

Having thus fully described the construction and operation of my invention,

What I claim as new, and desire to secure by Letters Patent, is—

A knife for splitting wood, consisting of a straight blade, A, and diagonal blades *a*, when constructed and operated as specified.

SAXON J. RAYMOND

Witnesses:

R. R. MOFFATT,  
H. A. COOK.