

C. N. BROWN.

Saws.

No. 133,828.

Patented Dec. 10, 1872,

Fig. 1.

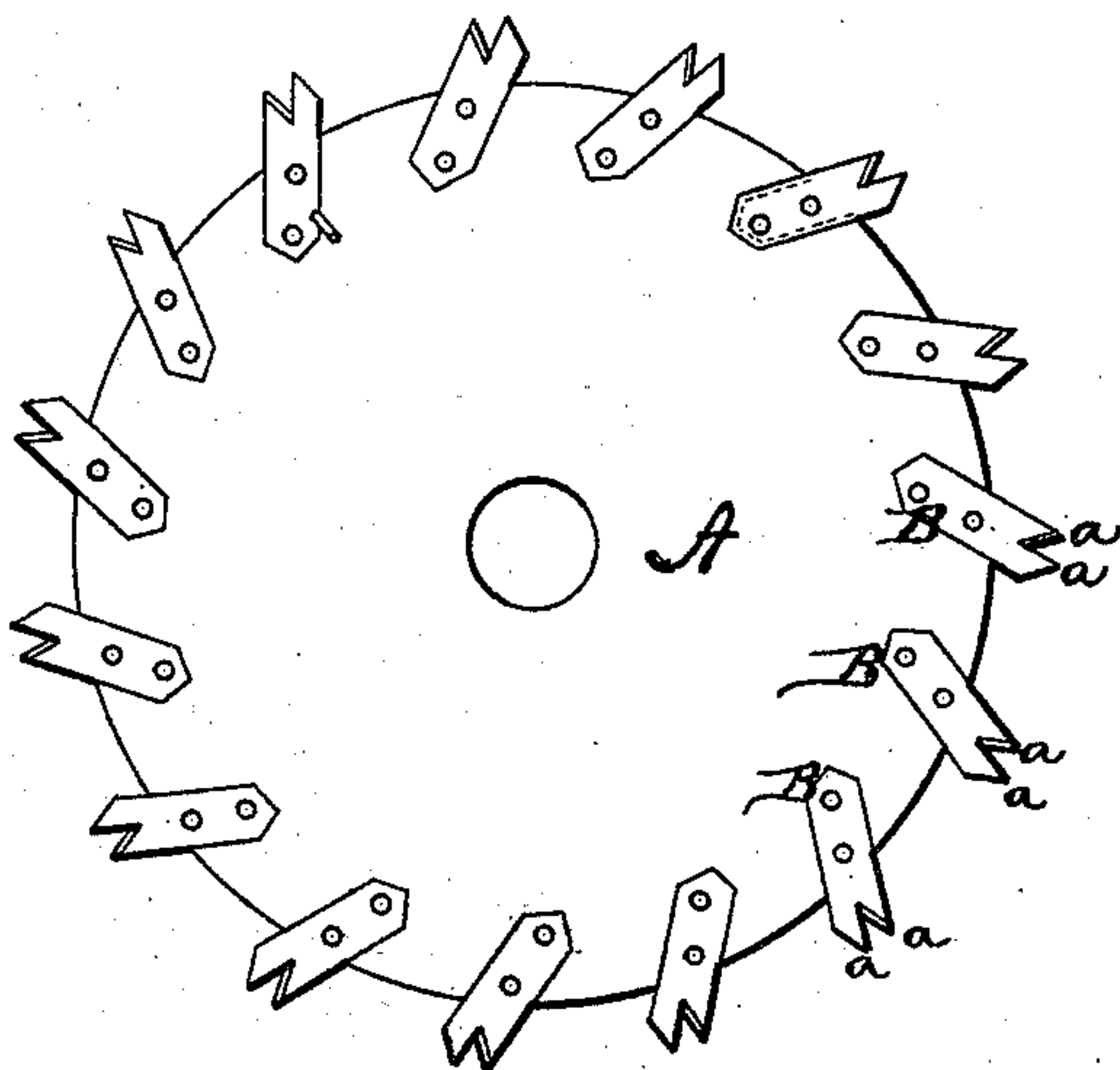


Fig. 2.

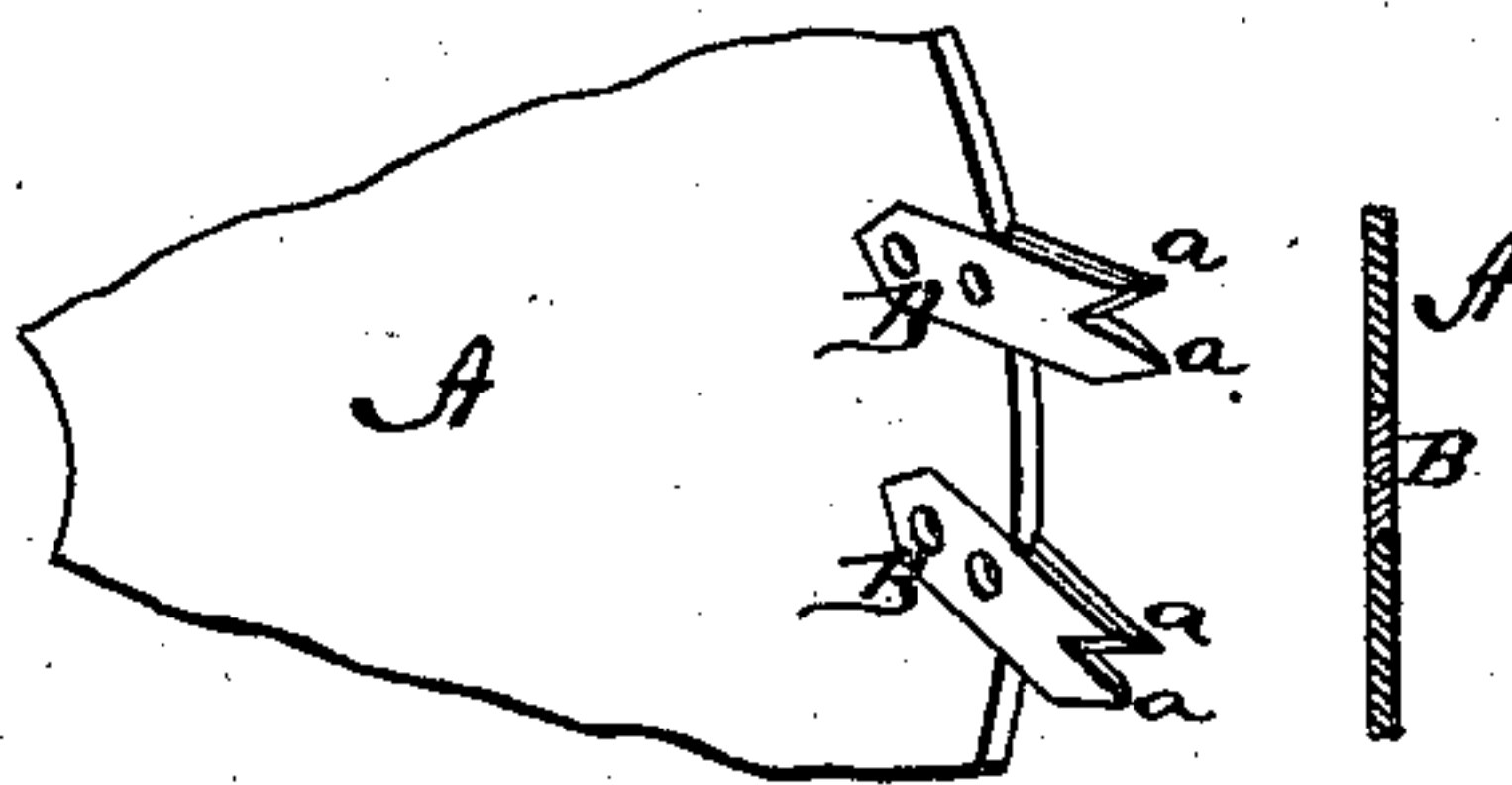
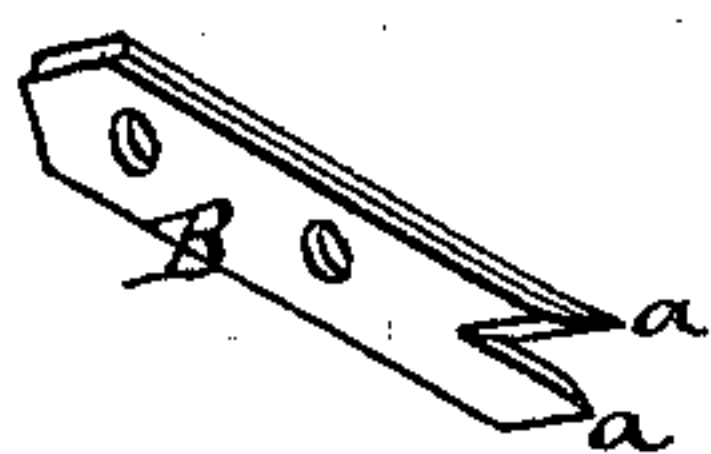


Fig. 3.



Witness:

Henry N. Miller
C. L. Ewert.

Inventor.

Charles N. Brown
per Alexander M. Mason

Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES N. BROWN, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN SAWS.

Specification forming part of Letters Patent No. 133,828, dated December 10, 1872.

To all whom it may concern:

Be it known that I, CHARLES N. BROWN, of Providence, in the county of Providence and in the State of Rhode Island, have invented certain new and useful Improvements in Saws; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in a circular cross-cutting saw with removable teeth having two points upon the wearing portion, and also in the construction of the wearing portion of a cross-cutting tooth with two points upon an angle to the radius of the saw in such a manner as to require dressing or filing only upon the front of the cutting-points, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side view of my circular cross-cutting saw; Fig. 2 is a perspective view of a part thereof; and Fig. 3 is a perspective view of one of the teeth.

A represents the saw-plate for a circular saw, into the edges of which are inserted sixteen teeth, B B, each tooth being at its outer end or wearing portion cut so as to form two cutting-points, *a a*. These points are set in opposite directions, forming a cross-cutting

saw, and at an angle to the radius of the saw, in such a manner as to require dressing or filing only upon the front of the cutting-point. This tooth, with two cutting-points, can be produced from straight bar-steel, of the proper thickness, for less expense than any other form of tooth. It requires less filing in use, as it is only dressed upon the front side of the cutting-points continually as it wears down.

By these simple yet important advantages a great saving of time and money is effected, as there are only thirty-two points to file upon one side where in the ordinary saw there would be ninety-six, and the stock of the whole saw-plate to be filed out.

The shape of the cutting-points is immaterial, the main principle being a removable tooth with two cutting-points for a cross-cutting saw.

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

The removable double-cutting saw-teeth B in combination with the circular plate A, constructed and used as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 22d day of October, 1872.

CHARLES N. BROWN.

Witnesses:

HENRY MARTIN,
EZRA D. FOGG.