H. DISSTON.

INSERTABLE SAW-TEETH.

No. 177,481. Patented May 16, 1876.

Fig 1.

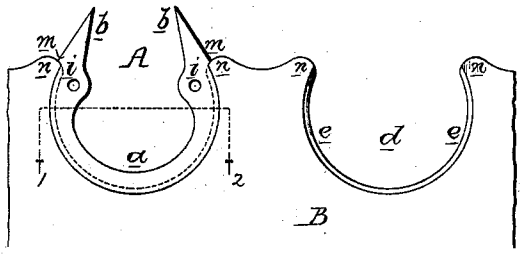
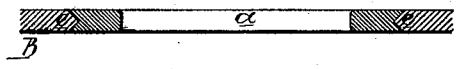


Fig 2.



Witnesses,
Harry Howson Jr.
Harry Smith

Henry Disston
by his Attorneys,
Howson and Son

UNITED STATES PATENT OFFICE.

HENRY DISSTON, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN INSERTIBLE SAW-TEETH.

Specification forming part of Letters Patent No. **177,481**, dated May 16, 1876; application filed April 29, 1876.

To all whom it may concern:

Be it known that I, HENRY DISSTON, of Philadelphia, Pennsylvania, have invented a certain Improvement in Insertible Saw-Teeth, of which the following is a specification:

The object of my invention is to make, for a crosscut-saw, teeth which can be readily removed when worn or broken, to make way for new teeth; and this object I attain in the manner which I will now proceed to describe, reference being had to the accompanying drawing, in which—

Figure 1 represents part of the blade of a crosscut-saw with detachable teeth, and Fig. 2 a section on the line 1 2.

The base of the tooth A consists of a segment, *a*, of a ring, terminating at the ends in angular cutters *b b'*, the inner edges of which are, by preference, slightly inclined, the outer edges being more abruptly inclined, and in all cases in the contrary directions, as shown.

In the blade B are made, at proper intervals, recesses *d*, adapted to the bases *a* of the teeth, V shaped grooves being made in the latter to receive the V-shaped rib *e*, made on the edge of the recess.

By applying a suitable instrument to holes *i i*, made in the tooth, and forcing the cutting-points toward each other, the base *a* may be so far contracted as to permit its introduction into a recess, *d*, of the blade, when, after being properly adjusted and relieved from the contractible pressure, it will, by its own recoil, be self-binding in the recess.

In order to prevent the base of the tooth from turning in the recess, I make, at the junction of each cutter with the segmental base, a shoulder, *m*, for bearing against a shoulder, *n*, on the blade.

The facility with which a damaged tooth can be removed to make way for a new one will be readily understood without explanation.

I claim as my invention—

The within-described duplex tooth, consisting of a segmental base, terminating in cutters *b b'*, inclined in contrary directions, the whole being adapted to a recess in the blade, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HENRY DISSTON.

Witnesses:

A. H. SHOEMAKER,

GEO. S. GAUDY.