

G. Manlick,

Saw.

No. 86,850.

Patented Feb. 9, 1869.

Fig. 1.

Fig. 2.

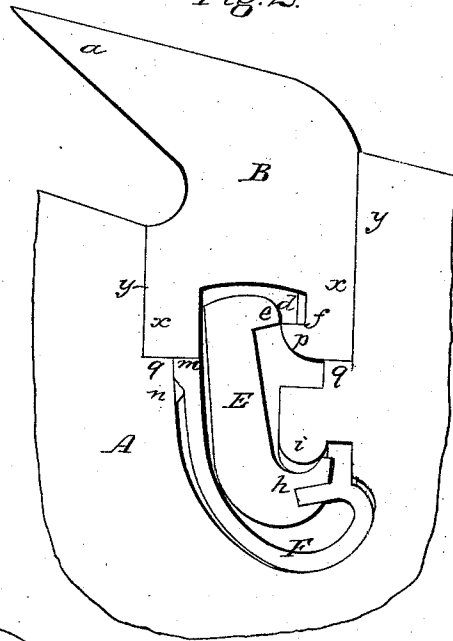
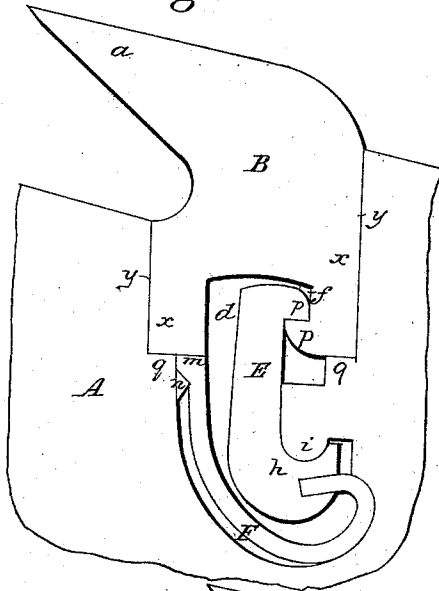
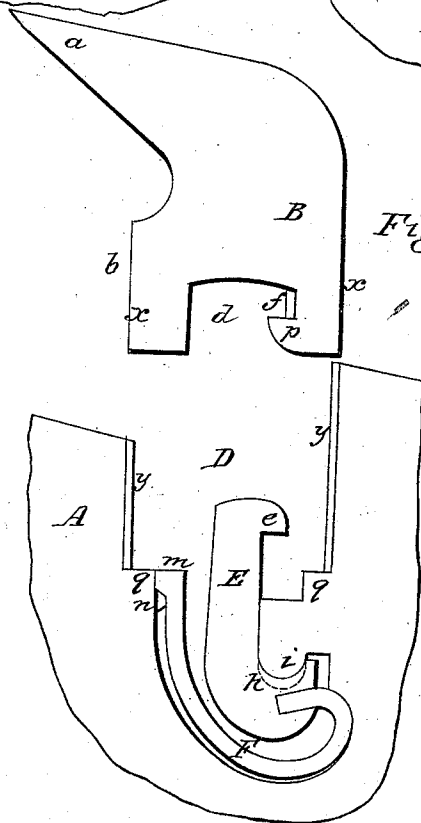


Fig. 3.



Witnesses.

LeB. Price
John Parker.

Inventor.
Gottlieb Manlick
by his Atty
H. Hornum.

United States Patent Office.

GOTTLIEB MAULICK, OF TRENTON, NEW JERSEY, ASSIGNOR TO
HIMSELF AND THOMAS P. MARSHALL, OF SAME PLACE.

Letters Patent No. 86,850, dated February 9, 1869.

IMPROVEMENT IN SAWS.

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, GOTTLIEB MAULICK, of Trenton, Mercer county, New Jersey, have invented an Improvement in Saws; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists in the combination of a detachable tooth with a spring-catch, both being constructed, and adapted to a recess in the blade, substantially as described hereafter, so that the tooth may be readily removed and replaced,

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 is a side view of my detachable saw-tooth as it appears when fitted to its place.

Figure 2, a view representing the spring-catch as moved back preparatory to the withdrawal of the tooth.

Figure 3, a view of the tooth detached from the blade.

Similar letters refer to similar parts throughout the several views.

A represents part of the blade, and B, the tooth, of which *a* is the point, and *b*, the base, the edges *x* of the latter being parallel, or the base being a trifle wider above than below.

These edges *x x* have V-shaped grooves, adapted to the similarly-shaped ribs on the edges, *y y*, of the recess D in the blade.

A recess, *d*, is cut in the base of the tooth, this recess being so formed as to admit the end of a catch, E, the latter having a projection, *e*, arranged to pass into a notch, *f*, which forms a continuation of the recess *d* in the base of the tooth, the end of this notch being V-shaped to fit the grooved end of the projection *e* on the catch.

The base, *h*, of this catch, is so hooked as to fit, and

turn to a limited extent on the rounded projection *i*, extending into a recess in the saw-blade, this projection being V-shaped to fit a groove made in the hooked portion of the catch.

One end of a bent spring, F, is secured to the base of the catch, the upper end having a notched projection, *m*, adapted to a V-shaped projection, *n*, on the edge of the recess in the blade.

In driving the tooth into its place, the rounded projection *p* on its base, comes in contact with the rounded portion of the projection *e* of the catch E, thereby forcing the latter back, as shown in fig. 2.

When the lower edge of the base of the tooth, however, has reached the shoulders *q q* of the recess of the blade, the projection *e* of the catch is forced by the recoil of the spring F into the notch *f* in the recess of the tooth, which is thus maintained tightly in its place by the catch, after moving which back to the position shown in fig. 2, by a suitable instrument, the tooth can be readily withdrawn.

It will be seen that the tooth, catch, and spring are retained in their proper position laterally, by a suitable arrangement of grooves adapted to ribs on the edge of the recess in the blade, and that no rivets tending to wound or warp the latter are used.

I claim as my invention, and desire to secure by Letters Patent—

The detachable tooth B with its projection *n*, the catch E, and the spring F, the whole being constructed and operating as specified.

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

GOTTLIEB MAULICK.

Witnesses:

RANDOLPH H. MOORE,
THOMAS P. MARSHALL.