

N. Stilwell,
Sawing Machine.
No. 103677. Patented May 31, 1870.

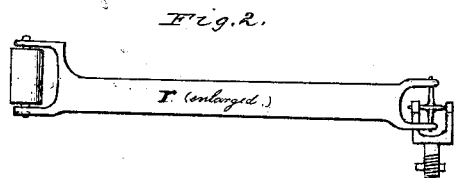
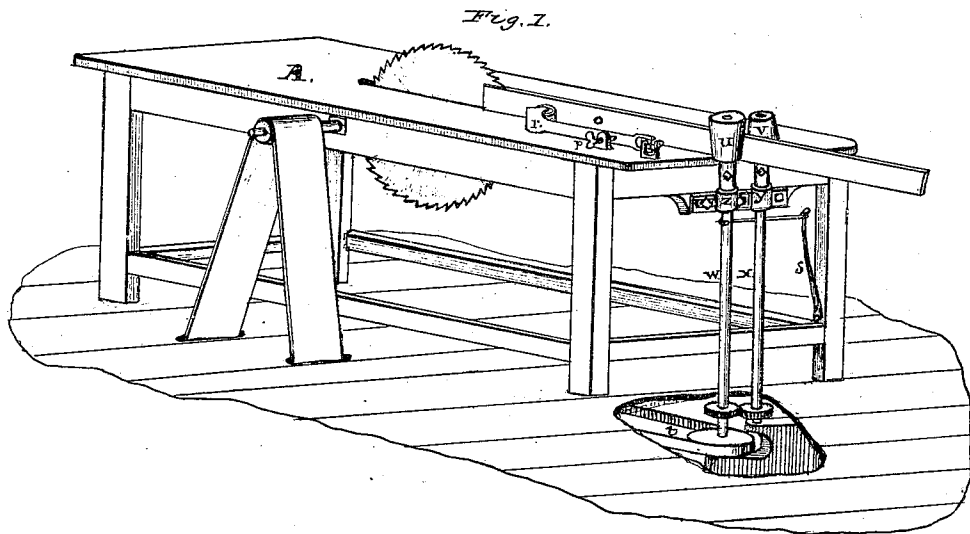


Fig. 3.



W. M. Gooding
Edward Colver } *attest*

Nicholas Stilwell

UNITED STATES PATENT OFFICE.

NICHOLAS STILWELL, OF NEWARK, NEW JERSEY.

IMPROVEMENT IN SAWING-MACHINE.

Specification forming part of Letters Patent No. **103,677**, dated May 31, 1870; antedated May 24, 1870.

To all whom it may concern:

Be it known that I, NICHOLAS STILWELL, of the city of Newark, in the county of Essex and State of New Jersey, have made certain Improvements in Attaching Feed-Motion to Circular-Saw Tables, and in various parts of the same; and declare the following, taken in connection with the accompanying drawings, to be a full and exact description of the same.

The nature of my improvement consists in so constructing and adapting feed-rollers to any common circular-saw table that at but little expense and trouble it is constituted a self-feeding slitting-saw, cutting clapboards with the same ease and facility as more expensive machines constructed solely for that purpose.

An ordinary circular-saw table is represented by A in the drawings.

Upon the frame-work at the front end of the table I place journal-boxes *z* and *y*, for two upright shafts, *x* and *w*. The box *z* is slotted, so as to slide upon the bolts, while the box *y* is stationary. The top ends of the shafts are below the level of the table-top, so that when the feed-rollers *u* and *v* are taken off there is nothing in the way of the saw being used for any ordinary work.

The drawings show beveled feed-rollers as adapted for sawing clapboards, each having a socket and set-screw for the convenience of attaching or detaching the feed, as desirable.

Straight rollers can be placed on the shafts when required, as shown in Fig. 3.

The lower ends of the shafts *w* and *x* are shown as passing through the floor and connected by gearing, motion being given by the pulley and belt *t*.

The roller *u* on the shaft *w* is made adjustable by the journal-box *z* being movable and held to its work by the spring *s*, connected to the shaft *w*.

Upon the table is placed, attachable and detachable at pleasure, the spring guide-roller *r*. The near end of the spring is on a universal joint, and the tension is adjustable by means of the set-screw *p* making equal pressure on *o*, the piece that is being cut, whether it be inclined or perpendicular.

All that I claim as my improvement, and desire to secure by Letters Patent of the United States, is—

1. The arrangement of the shafts *w* and *x*, spring *s*, sliding box *z*, fixed bearing *y*, and removable rolls *u* *v*, when constructed as shown and described, and for the purpose specified.

2. Also, the adjustable spring guide-roller *r*, when constructed with a universal joint and used in combination with the feed-motion above described.

NICHOLAS STILWELL.

Witnesses:

W. M. GOODING,
EDWARD COLLVER.