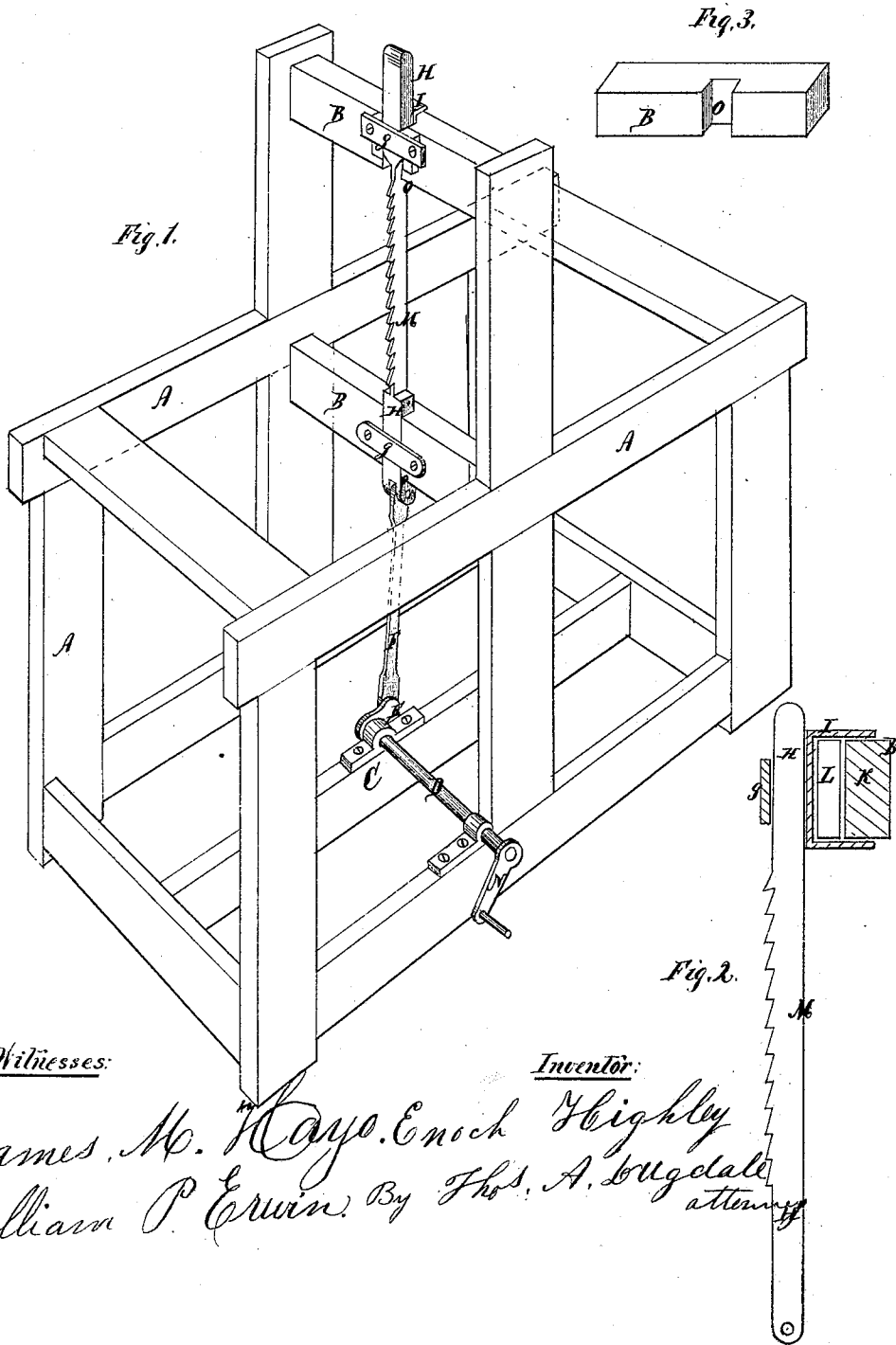


E. Highley,

Scroll Saw Mill.

No. 102263.

Patented Apr. 26. 1870.



Witnesses:

James M. Mayo. Enoch Highley
William P. Erwin. By Thos. A. Bugdale
attorney

Inventor:

United States Patent Office.

ENOCH HIGHLEY, OF BEECHY MIRE, INDIANA.

Letters Patent No. 102,263, dated April 26, 1870.

IMPROVEMENT IN SAW-MILLS.

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

I, ENOCH HIGHLEY, of Beechy Mire, Union county, and State of Indiana, have invented certain Improvements in Hand Sawing-Machines, of which the following is a specification.

Nature and Object of the invention.

My invention consists in providing the saw with a solid sliding bar at each end, sliding in grooves, with gibs behind them, and flexible pieces behind the gibs and against the cross-pieces, at the back of the grooves. Said elastic or flexible pieces are to compensate for the wear on the gibs and sliding bars at the ends of the saw.

Description of the Accompanying Drawings.

Figure 1 is a perspective view of my improved saw and the frame, the same embodying my invention.

Figure 2 is a transverse section of one of the cross-pieces, B, shown as cut off at the right hand of the line X, exhibiting the sliding joint.

Figure 3 is a section of the cross-piece B, which shows a groove, O.

General Description.

The same letters refer to corresponding parts in the several figures.

- A is the frame.
- B B are cross-pieces.
- C is a piece running lengthwise of the frame.
- D is a shaft.
- E is a crank.
- F is a pitman.
- G G are caps.
- H H, enlarged solid ends to the saw.
- I is a gib.
- K, end of section of cross-piece B, seen as cut off.
- L is a piece of gum-elastic.
- M is the saw.
- N is a crank.

O O are grooves, in which the pieces H H slide, and in which are inserted the gum-elastic piece L and gib I.

Construction.

I make my frame of ash timber, three by five inches. The frame is three feet wide and five feet long, and about two feet eight inches high, or more, if desired.

I cut a groove in the cross-piece or pieces, to insert the gum-elastic and gibs, and for the piece H to slide in, over which are screwed the caps G, which I make of brass or iron. The gibs are also made of brass or iron. The gibs are made by bending a flat piece of iron or brass, of the proper width and thickness, at right angles at each end.

The motion of my saw may be increased to any desired speed, by placing a pulley on the end of the shaft D, in place of the crank N, or a cog-wheel may be used, and gearing applied to increase the speed as much as is desired.

I do not claim an upright saw, as I am aware they have been used.

I am aware of the sawing-machine of H. L. Beach, and do not claim anything as my invention contained in his machine as claimed by him.

I am also aware of the machine of Samuel Darling, I do not claim anything as used by him.

Claim.

I claim as my invention—

The combination of the gum-elastic piece L, gib I, and cap G, arranged as above described, when used in connection with saw M, constructed as described, the whole being arranged as above set forth.

ENOCH HIGHLEY.

Witnesses:

JAMES M. HAYS,
EDDIE DUGDALE.