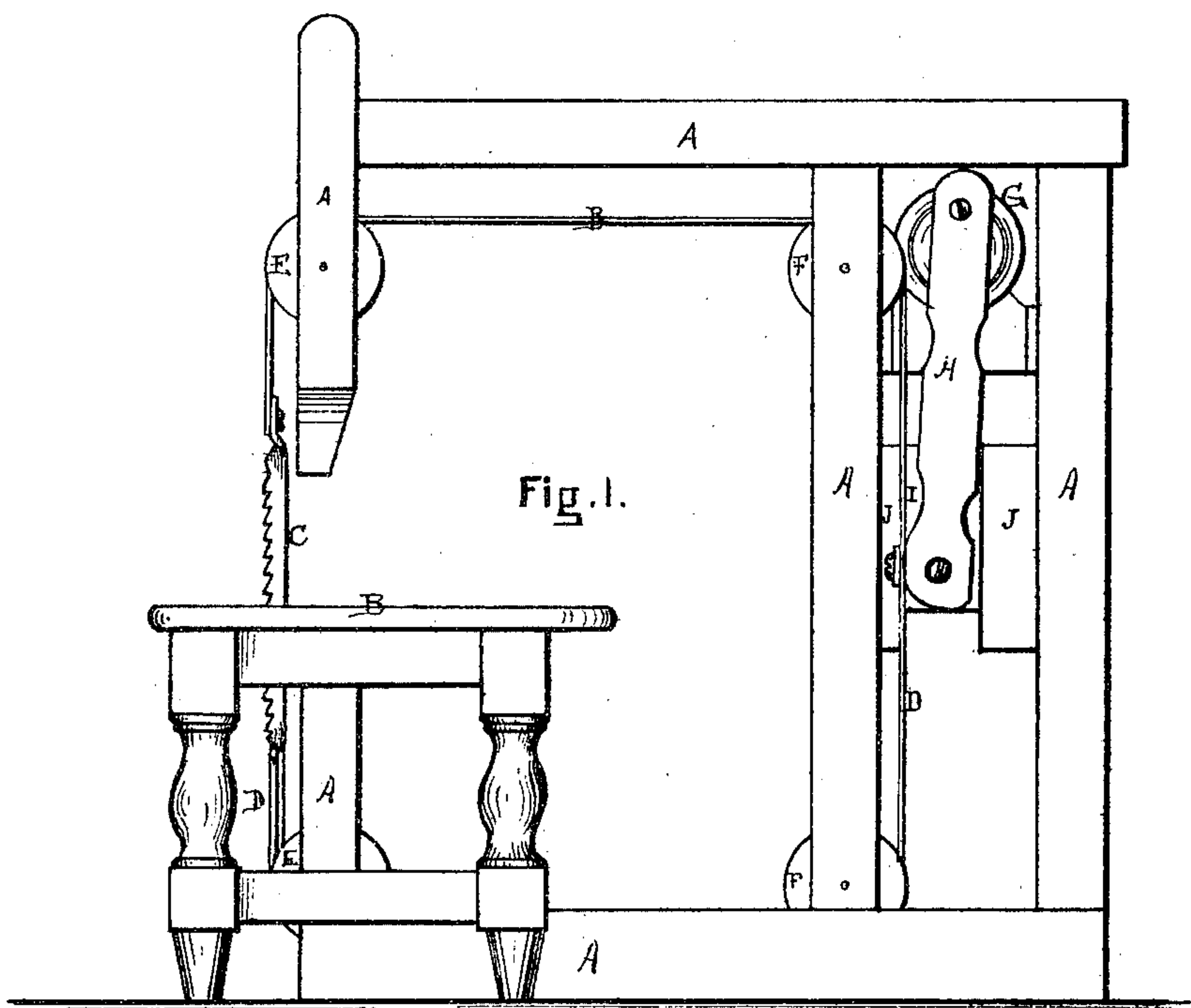


*L. Miller,*  
*Scroll Saw.*  
*No. 113907.* *Patented Apr. 18. 1871.*



Witnesses.  
*E. Hartman*  
*E. M. Pearson*

Inventor.  
*Louis Miller*  
*By his atty.*  
*R. D. Smith*

# United States Patent Office.

LOUIS MILLER, OF BALTIMORE, MARYLAND.

Letters Patent No. 113,907, dated April 18, 1871.

## IMPROVEMENT IN SCROLL-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, LOUIS MILLER, of Baltimore, in the county of Baltimore and State of Maryland, have invented a new and useful Improvement in Scroll-Saws; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, in which the figure represents a side elevation of my machine.

This invention relates to that class of scroll-saws wherein the saw is operated by means of a strap passing over pulleys or rollers and connecting the two ends of the saw; and

It consists in the combination of the pitman and strap, as shown and described.

In the drawing—

A represents the saw-frame, and

B the table upon which the work is supported.

C is the saw, and

D is the strap which passes over the rollers or pulleys E F and connects the two ends of the saw. The strap is sufficiently strained to give to the saw the requisite tension.

G is a crank fly-wheel at the end of the driving-shaft, which is actuated by a steam-engine or other power, and to which motion may be communicated by any usual and well-known means.

The revolution of the crank-wheel G imparts a reciprocating motion to the pitman H, and the lower or free end of said pitman is secured to the strap D at the point *d*, as shown, by means of screws, pins, or other convenient devices.

The free end of the pitman H is kept in proper line by means of a slide, I, which moves between the guides J, and to which it is jointed by the wrist *h*.

The pitman is made slightly convex at the point where the strap D is secured to it, so that said strap may not be bent at an angle at any time during the reciprocation of the pitman.

By the construction and arrangement of the parts as above described I have found that the saw may be operated with rapidity and ease, and that the strap becomes a durable and cheap means of operating the saw with uniform tension.

Having described my invention,

What I claim as new is—

In combination, the strap D secured to the reciprocating end of the pitman H, to operate as set forth and described.

LOUIS MILLER.

Witnesses:

R. D. O. SMITH,

CHAS. A. HARKNESS.