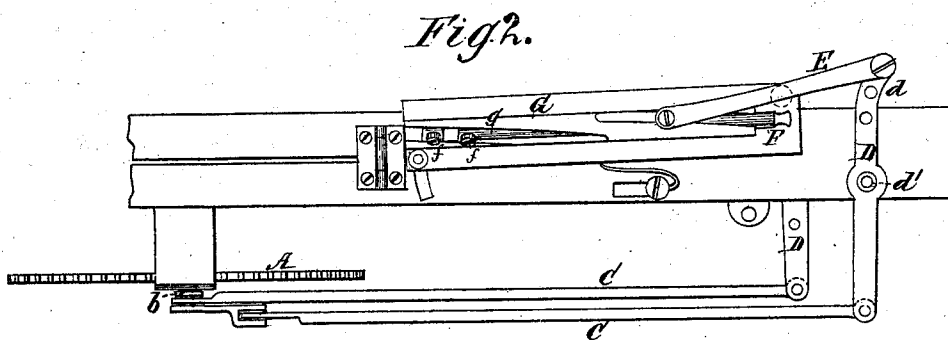
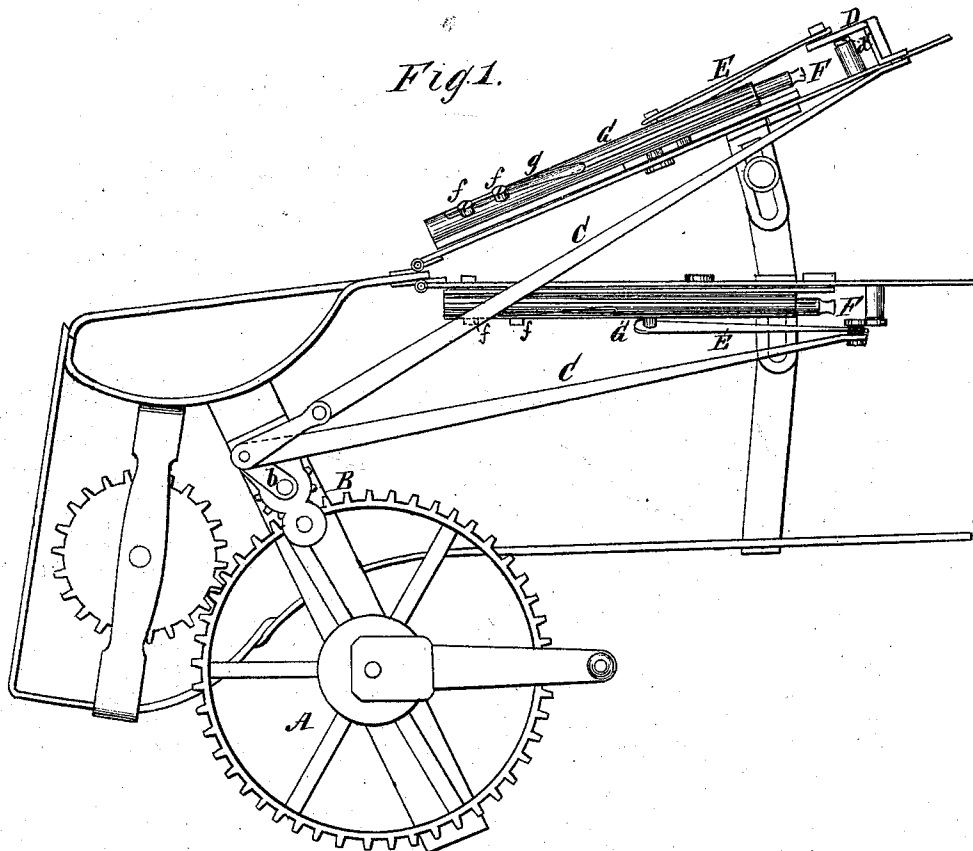


L. M. ASBILL.
Gin-Saw Filing-Machines.

No. 150,809.

Patented May 12, 1874.



WITNESSES.

G. Marbury.
Solow C. Keman

INVENTOR.

Lewis M. Asbill

BY

ATTORNEYS.

UNITED STATES PATENT OFFICE.

LEWIS M. ASBILL, OF RIDGE, SOUTH CAROLINA.

IMPROVEMENT IN GIN-SAW-FILING MACHINES.

Specification forming part of Letters Patent No. **150,869**, dated May 12, 1874; application filed March 23, 1874.

To all whom it may concern:

Be it known that I, LEWIS MONROE ASBILL, of Ridge, in the county of Edgefield and State of South Carolina, have invented a new and Improved Gin-Saw-Filing Machine; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a side elevation, and Fig. 2 a plan view.

The invention relates generally to machines that are used to facilitate the filing of gin-saw teeth, and to supersede the old means of performing the work by hand, but more particularly to the improved machine on which a patent was granted to me on the 31st of December, 1872. The improvements consist in means for giving a variable adjustment to the file-stroke, while the forward end or point of the file is not changed in position.

A represents the crank driving-wheel that operates a pinion, B, having the crank-arm *b*. To the wrist on the end of this arm are attached pitmen C, which vibrate a lever, D, and, through a connecting-strap, E, move the file-holder F in its guide-tube G. I make the levers D D with the end *d* perforated at several points, and on an arc-curve, so that the

strap E may be adjusted more nearly to or more remote from the fulcrum *d'*, thus regulating the throw of the file-holder, while the front of the file is thus always correspondingly adjusted, so as to be carried to the same forward point at every reciprocation. I also make, in the guide-tube G an oblique slot, *g*, in which the shank of the file-holder pin *f* slides. By this construction I cause the file to turn slightly or roll in its socket-guide G as it moves, and to give to the gin-tooth a briar-point. The object of producing this peculiar point is to cause the teeth to enter the cotton more readily, and thus cut or break the fiber less, as well as allow it to be more easily cleaned.

Having thus described my invention, what I claim is—

The lever D, curved at the end *d*, and having several perforations, as described, to allow the throw of file-holder to be regulated without changing the farthest point to which the end of the file will go at each forward stroke.

The above specification of my invention signed by me this 3d day of March, A. D. 1874.

LEWIS MONROE ASBILL.

Witnesses:

MALACHI BONHAM ASBILL,
JOHN STEVENS.

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