(No Model.)

J. C. HORSTMEIER.

GUARD FOR SAWMILLS.

No. 525,603. Patented Sept. 4, 1894.

Fig. 1

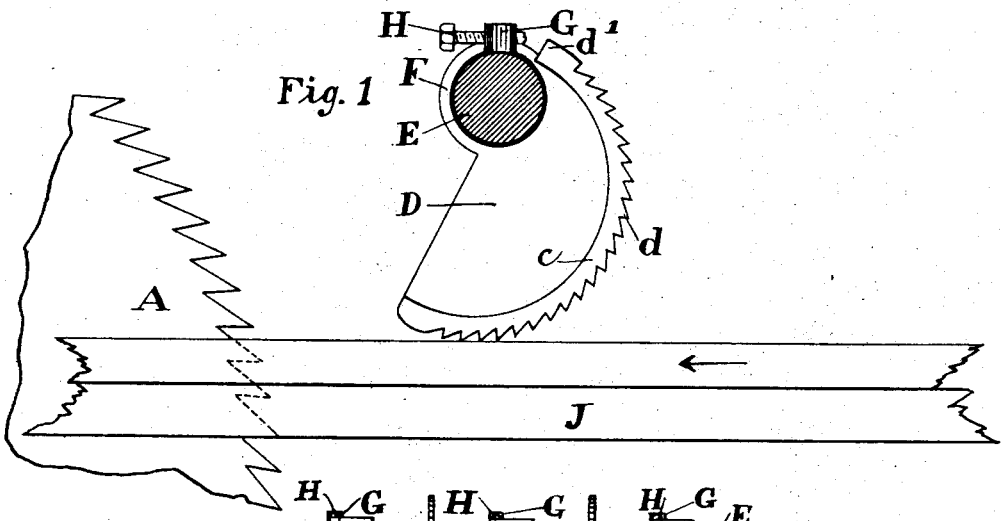


Fig. 2

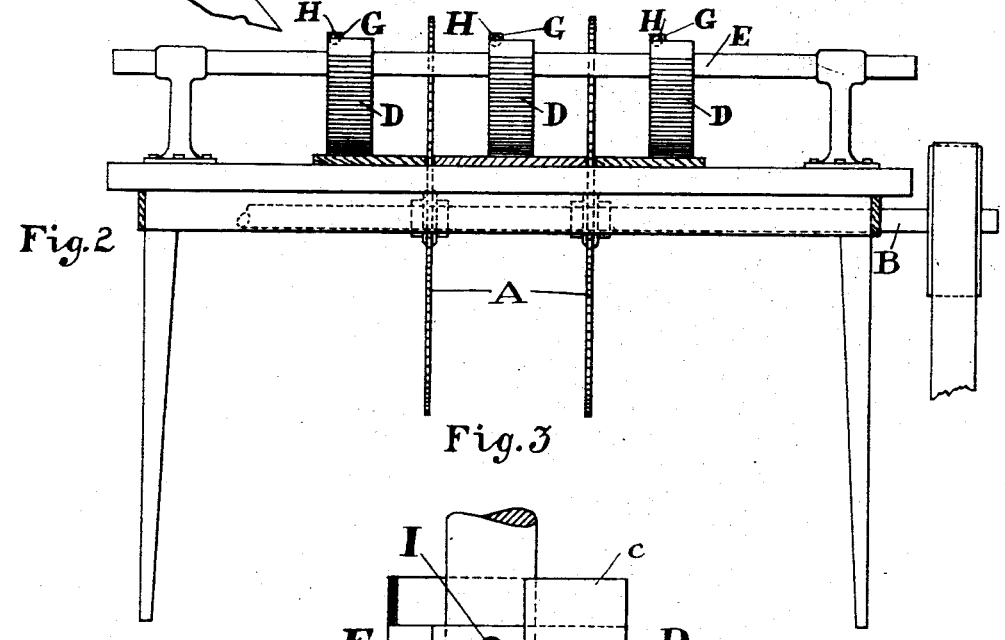
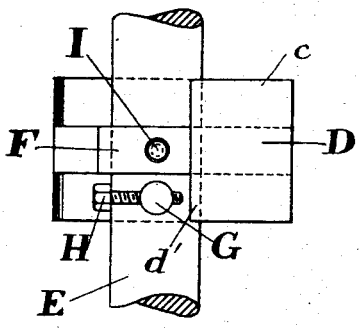


Fig. 3



Witnesses:—

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UNITED STATES PATENT OFFICE.

JOHN C. HORSTMEIER, OF BALTIMORE, MARYLAND.

GUARD FOR SAWMILLS.

SPECIFICATION forming part of Letters Patent No. 525,603, dated September 4, 1894.

Application filed June 9, 1893. Serial No. 477,042. (No model.)

To all whom it may concern:

Be it known that I, JOHN C. HORSTMEIER, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Guards for Sawmills, of which the following is a specification.

My invention relates to an improved guard for sawing machines and has for its object to provide an automatic device to be located preferably in front of the saw, or saws if used in connection with a gang of saws, and is designed to prevent the board which is split in passing through the sawing machine, from being thrown back toward the operator or upward, by the saw.

Referring to the drawings Figure 1, is a side elevation showing the table, the saw, a board on the table, and the guard suspended from a shaft in front of the saw and in position on the board. Fig. 2, is a front elevation showing several of the guards used in connection with a gang saw in the act of splitting a board into several pieces, and showing the several kerfs made by the saws. Fig. 3, is a detail top view of one of the guards and the shaft on which it is mounted.

Referring to the drawings the letter, A, indicates the saw which is mounted on and rotates with the shaft, B, having position below the table J.

The guard, D, comprises a semi-circular disk or cam eccentrically mounted, or more accurately, suspended, from a shaft, E, located in front of the saw and at a sufficient height above the table, so that in its normal position when not in use, the lower point of the cam will be just above the table. The said cam is provided along its curved edge with a peripheral flange *c* and said flange is provided with a series of teeth *d* adapted under circumstances hereinafter to be set forth, to bite into a board passing under cam-guard. A half-collar, F, at the upper end, extends around the shaft, E, and loosely secures the cam thereto. The peripheral flange E is cut away as shown in Fig. 3, to form a shoulder, *d'*, and a pin or lug, G, sets into the shaft, E, and has position within the recess thus formed. A set screw H passes through the stop pin G and serves as a stop and the shoulder, *d'*, abuts against said stop, and thereby the swing of the cam may be regulated to suit the different thicknesses of lumber.

An oil cup, I, has position on the top side of the cam-collar to lubricate the pivot connection between the same and the shaft, E.

In use the boards are fed in the direction indicated by the arrow in Fig. 1, and the cam will yield or lift and permit the board to be moved freely in the direction toward the saw, but will automatically clamp the board down to the table if said board is started in the opposite direction, that is toward the operator.

The guard will thus be seen to be a safety device to protect the person feeding the saw and to insure a correct feed of the board through the sawing machine, while provision is made for readily adjusting the swing of the guard to different thicknesses of lumber.

Having thus described my invention, I claim—

1. A saw-guard comprising a substantially semi-circular disk D, eccentrically journaled to a shaft in front of the saw and having a recessed portion forming a shoulder, a stop-pin secured on the shaft, and a set-screw passing through the stop-pin and normally abutting the shoulder, whereby the guard disk may be adjusted to boards of any thickness, substantially as described.

2. A saw-guard comprising a substantially semi-circular disk eccentrically journaled on a shaft in front of the saw; a peripheral flange *c* on the guard-disk and forming a shoulder *d'*; a stop pin fixed on the shaft, and a set screw passing through the stop pin and adapted to be abutted by the said shoulder.

In testimony whereof I affix my signature in the presence of two witnesses.

JOHN C. HORSTMEIER.

Witnesses:

JOHN T. GALVIN,

JOHN KAVANAGH.