

(No Model.)

2 Sheets—Sheet 1.

H. F. KUHLMANN, M. F. ROBINSON & E. S. IRVIN.

SAW GUARD.

No. 299,480.

Patented May 27, 1884.

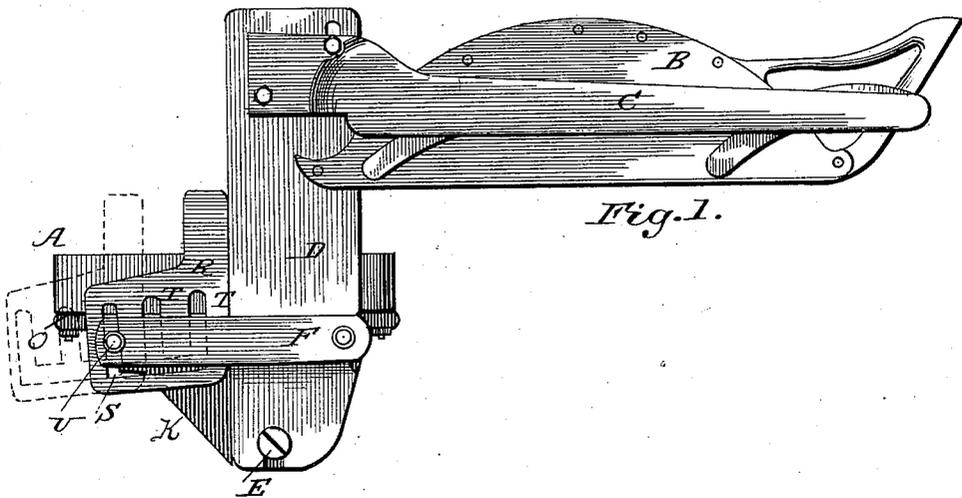


Fig. 1.

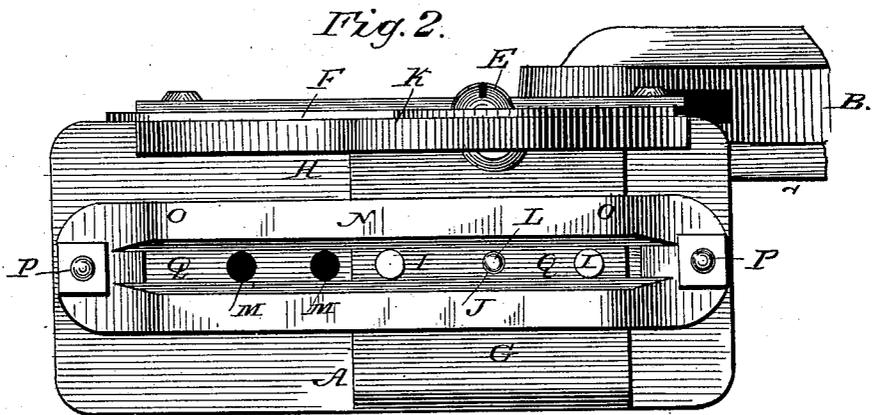


Fig. 2.

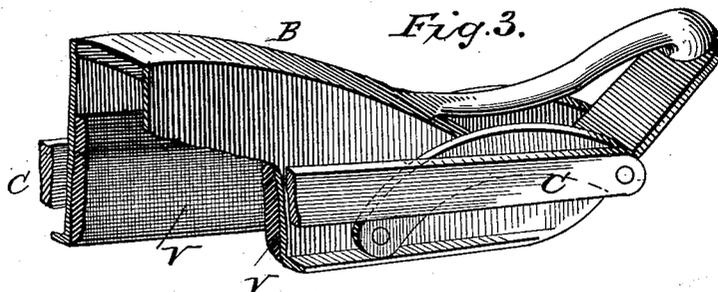


Fig. 3.

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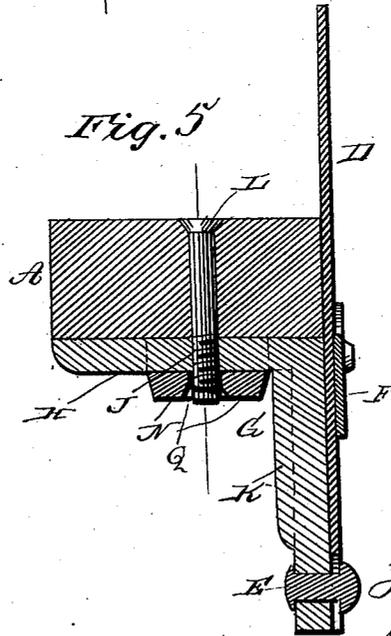
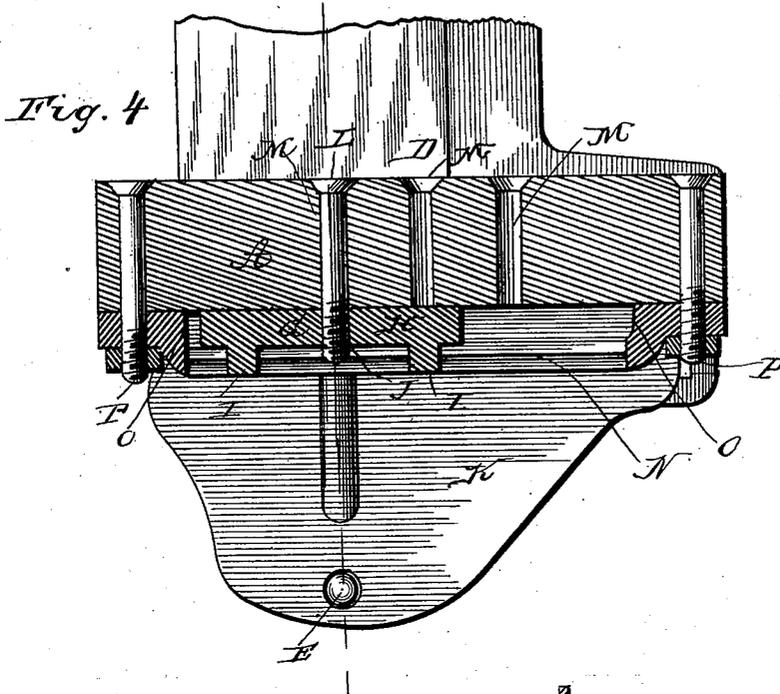
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2 Sheets—Sheet 2.

H. F. KUHLMANN, M. F. ROBINSON & E. S. IRVIN.
SAW GUARD.

No. 299,480.

Patented May 27, 1884.



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UNITED STATES PATENT OFFICE.

HENRY F. KUHLMANN, MERRITT F. ROBINSON, AND EDWARD S. IRVIN, OF INDIANAPOLIS, ASSIGNORS TO THE NATIONAL SAW GUARD COMPANY, OF MARION COUNTY, INDIANA.

SAW-GUARD.

SPECIFICATION forming part of Letters Patent No. 299,480, dated May 27, 1884.

Application filed October 15, 1883. (No model.)

To all whom it may concern:

Be it known that we, HENRY F. KUHLMANN, MERRITT F. ROBINSON, and EDWARD S. IRVIN, citizens of the United States, residing at the city of Indianapolis, in the county of Marion and State of Indiana, have invented certain new and useful Improvements in Saw-Guards, of which the following is a specification, reference being had therein to the accompanying drawings, in which—

Figure 1 is a side view of our improved saw-guard. Fig. 2 is a bottom view of the saw-table and the fastening for the guard, and Fig. 3 is a view of the hood with a portion of it broken away. Fig. 4 is a longitudinal vertical section, and Fig. 5 is a vertical cross-section, of the table and fastening.

Similar letters of reference indicate corresponding parts in all the figures.

Our invention has relation to saw-guards; and it contemplates certain improvements upon the guards for which Letters Patent were granted to Henry F. Kuhlmann on September 12, 1882, No. 264,412, July 17, 1883, Nos. 281,274 and 281,275, and the guard, the application for which was allowed on the 18th day of September, 1883; and it consists to that end in the improved construction and combination of parts of the same, as hereinafter more fully described and claimed.

The object of our invention is to provide a fastening for the hood and the pivoted upright shown in the above-named patents and allowed application, so that different-sized hoods, and consequently different-sized uprights, may be used upon the same fastening, the hoods and uprights being changed according to the size of the saws used; and to accomplish this object we construct our guard as shown in the drawings and more fully described in the following:

In the accompanying drawings, the letter A represents the saw-table. B is the hood; C, the rearwardly-pointing arms from which the hood is suspended; and D is the flat upright, pivoted upon a screw, E, in the lower end of the downwardly-projecting portion of the fastening-plate, and held in position by the transverse plate or bar F, all of which parts are of

the same construction as the parts used in the former guards, and therefore need no further description.

The fastening-plate G consists of a plate, H, having two lugs, I, upon its under side, and having a female threaded perforation, J, all in one longitudinal line, a distance from the outer edge of the plate, from which the downwardly-pointing vertical portion K of the plate projects. A screw, L, passes through one of a series of perforations, M, in the table into the female threaded perforation in the plate and serves to secure the same to the table, and the fastening-plate may be adjusted nearer to or farther from the saw by changing the fastening-screw from one of the said perforations to another. To guide the plate in moving it forward or back, and to furthermore secure it, a longitudinal plate or bar, N, having two shoulders, O, of the same thickness as the fastening-plate, one at each end, is secured to the table by means of screws P passing through the shoulders, spanning the fastening-plate, and the said bar has a longitudinal slot, Q, into which the lugs upon the fastening-plate and the end of the fastening-screw project, preventing the fastening-plate from turning, and guiding it when moved by changing the screw from one perforation in the table to another. A plate, R, having a slot, S, in its lower end, parallel to its lower edge, and a number of longitudinal slots, T, opening with their lower ends into the transverse slot, and having a slight inclination toward the inner and lower corner of the plate, slides with its slots upon the outer, U, of the screws, securing the transverse plate to the vertical portion of the fastening-plate, the portions of the plate between the inner edge of the plate and the inner edges of the slots forming wedges, so that by bringing the inner edge of the wedging-plate to bear against the outer edge of the upright and forcing the plate down with one of the longitudinal slots sliding upon the screw the upright may be secured and held in position, and it will be seen that in this manner the wedging-plate may be withdrawn, allowing the upright and its hood to be removed and an upright of a different size to be

inserted, when the wedging-plate may again be pushed down, another slot sliding upon the screw this time, and secure the upright. The inner surfaces of the rear portions of the sides of the hood are provided with linings V, of rubber or similar material, which serve to prevent the saw from being injured by the teeth of the same striking the sides of the hood, which may easily happen if the teeth by the swerving of the saw should strike the hard uncovered metallic sides of the hood.

Having thus described our invention, we claim and desire to secure by Letters Patent of the United States—

1. The combination of the hood and upright, a fastening-plate having a vertical portion provided at its lower end with the pivotal bolt for the upright, a transverse plate fastened across the upper portion of the vertical portion of the fastening-plate by means of two screws, one at each end, and a wedging-plate having a transverse slot at its lower end, and a number of longitudinal slots parallel with each other, and having their inner edges slightly inclined toward the lower inner corner of the plate, as and for the purpose shown and set forth.

2. The combination of the fastening-plate having the upright carrying the hood attached adjustably to it, and provided with two lugs and a female threaded perforation, all in a longitudinal line, the saw-table having a longitudinal series of perforations, a screw fitting in the perforations in the table and in the female threaded perforation in the fastening-plate, and a longitudinally-slotted plate or bar spanning the fastening-plate, and having the lugs and the end of the screw projecting into the slot and fastened to the under side of the saw-table, as and for the purpose shown and set forth.

3. A hood for a saw-guard having the inner surfaces of its sides lined with rubber, as and for the purpose shown and set forth.

In testimony whereof we affix our signatures in presence of witnesses.

HENRY F. KUHLMANN.
MERRITT F. ROBINSON.
EDWARD S. IRVIN.

Witnesses:

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