(No Model.)

G. GRILL.

GUARD FOR VARIETY MOLDERS.

No. 260,974. Patented July 11, 1882.

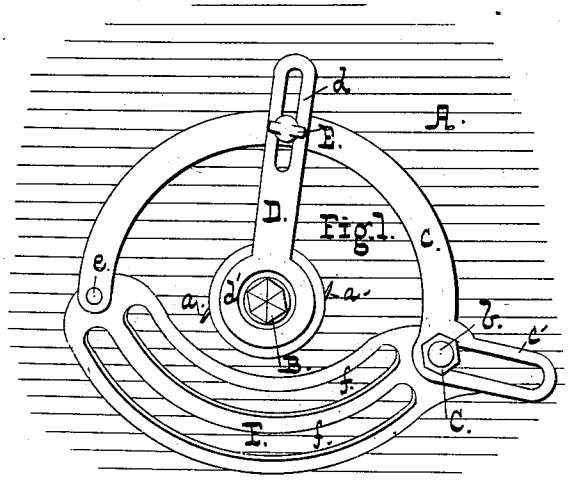
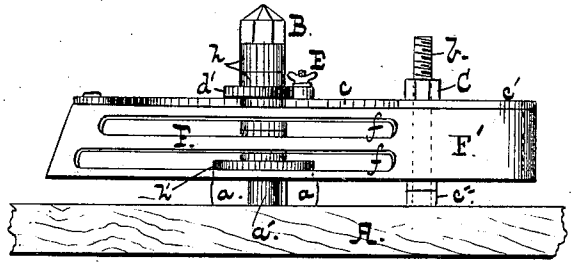


Fig. 2.



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UNITED STATES PATENT OFFICE.

GOTTFRIED GRILL, OF BALTIMORE, MARYLAND.

GUARD FOR VARIETY MOLDERS.

SPECIFICATION forming part of Letters Patent No. 260,974, dated July 11, 1882.

Application filed April 26, 1882. (No model.)

To all whom it may concern:

Be it known that I, GOTTFRIED GRILL, of Baltimore city, State of Maryland, have invented certain new and useful Improvements in Guards for Variety Molders; and I hereby declare the same to be fully, clearly, and exactly described, as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a top plan, and Fig. 2 is a side elevation, of the device.

My invention relates to guards or shields adapted to be used in connection with variety molders, and designed to prevent injury to the operator by rendering it impossible, in the ordinary use of the machine, to bring the hand within the range of the cut of the knives; and it consists in a guard constructed and operating as hereinafter set forth, the points of novelty being made the subject of the claim.

In the drawings, A is the table, through which projects the spindle a', having knives a, secured, as usual, by rings h', collars h, and a nut, B. Close by the side of the spindle a rod, b, is mounted on the table, and serves as a standard or support for the guard F. This latter is bell-shaped, as shown, and is provided with a number of slots, $f\,f$, through which the operation of the cutters may be observed. The end F′ of the guard is slotted for the passage of the rod b, on which is mounted one or more rings, c'', which serve to support the guard at the proper height. The slotted end F′ admits of an adjustment of the guard to or from the spindle in the line of the slot, a nut, C, serving to clamp the guard tightly on the rod b. A plate, c, attached to the guard at e, and having a slotted end, c', corresponding to the end F′, is clamped to the guard by the nut C.

D is a plate terminating in a ring, d', which embraces the spindle a', and having a longitudinal slot, d, at the opposite end, where it is adjustably clamped to the plate c by a thumb-screw, E.

In operation, the cutters being secured upon the spindle, the guard is placed in position, as shown, the ring d' embracing the spindle. A sufficient number of rings or washers, c'', is placed on the rod b to sustain the guard at the desired height, when it is adjusted to or from the spindle, by sliding the guard on the rod b and swinging it about the same as a pivot. When adjusted the nut C and screw E are tightened, securing the guard in place, the arm D preventing the guard from approaching the spindle should the nut C jar loose. Being located close beside the spindle, the rod b does not interfere with a class of work that has heretofore necessitated the temporary removal of guards. I refer to inside work, such as beading the inside edges of door-panels. A panel is rarely so narrow as not to embrace both spindle and rod. The progress of the work may be observed through the slots, while the guard prevents the hands of the operator from approaching too near the knives. My device is adapted for use with the ordinary molder, and is also adapted for use in all ordinary kinds of work. This is very important. A guard which must be removed every now and then is worse than none, for the very end designed to be obtained is defeated. A workman who knows that there is a barrier between his fingers and the knives will not be so careful as if that were not the case, and when one once accustomed to rely on the guard is compelled to work temporarily without it he is almost sure to be cut.

Were it possible, by the exercise of the greatest care and vigilance, to avoid accident in running the variety molder, a guard which under any possible conditions could not be used would be a bad thing, for the increased danger of accident when it is not used would outweigh all its advantages when in use; but as a matter of fact accident is only a question of time with the molder. The most careful workman is nearly as likely to be hurt as a beginner, so I have devised the guard hereinbefore described for the protection of both, constructing and arranging it in such manner as to enable it to be used always.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

In combination with the spindle and rod b, the bell-shaped slotted guard and plate c, and the arm D, having at one end a ring which embraces the spindle, and is adjustably secured to the plate c at the other, as set forth.

GOTTFRIED GRILL.

Witnesses:

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