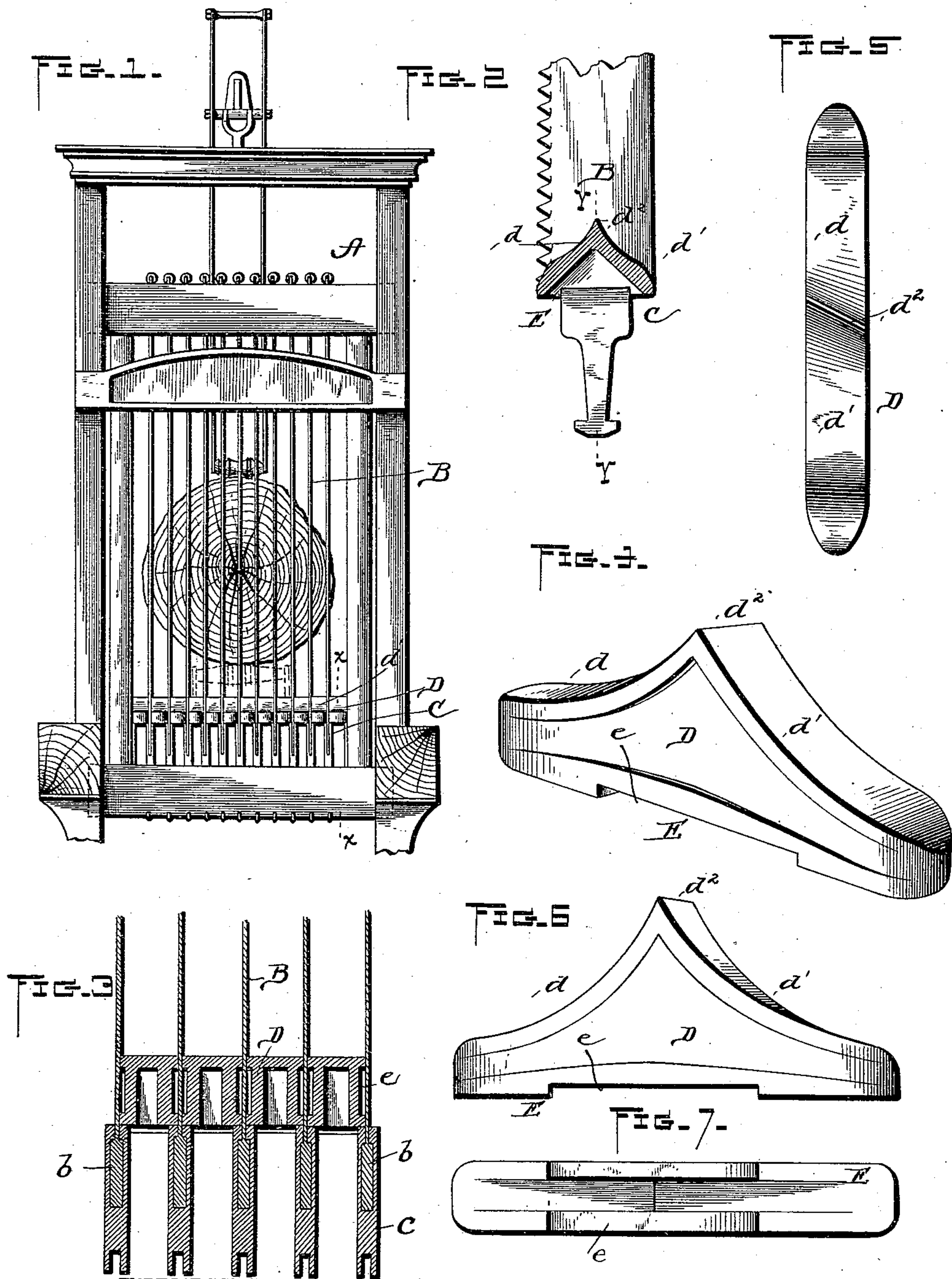


(No Model.)

K. DOLEN.
GANG SAW GUARD.

No. 450,007.

Patented Apr. 7, 1891.



WITNESSES
A. L. Ourand.
Van Buren Hillyard.

INVENTOR
Kearn Dolen.
By R. S. & P. S. Sacy
his Attorneys.

UNITED STATES PATENT OFFICE.

KEARN DOLEN, OF ONALASKA, WISCONSIN.

GANG-SAW GUARD.

SPECIFICATION forming part of Letters Patent No. 450,007, dated April 7, 1891.

Application filed October 24, 1890. Serial No. 369,216. (No model.)

To all whom it may concern:

Be it known that I, KEARN DOLEN, a citizen of the United States, residing at Onalaska, in the county of La Crosse and State of Wisconsin, have invented certain new and useful Improvements in Gang-Saw Guards; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to guards for reciprocating-saw mills, and has for its object to prevent the lodgment of sawdust, pieces of boards, &c., between the saws. Pieces of board lodging in these spaces interfere with the working of the machine, which must be stopped to permit the removal of such pieces.

The purpose of the invention is to obviate the aforesaid difficulties; and to this end the invention consists of a guard to be placed between the saws and sloping rear and front to deflect the sawdust from between the saws, the sloping sides terminating in a chisel-edge which is designed to sever such pieces of wood and chips that may fall across the guard. This guard, which is designed to be secured between the saws in any desired manner, is preferably constructed to rest upon the tabs at the lower ends of the saws and upon the saw-fastening, as hereinafter will be more fully set forth.

The improvement consists of the novel features which hereinafter will be more fully described and claimed, and which are shown in the annexed drawings, in which—

Figure 1 is a front view of a gate and a gang of reciprocating saws, showing the application of the invention. Fig. 2 is a vertical section of the lower portion of the gate and gang on the line X X of Fig. 1. Fig. 3 is a section on the line Y Y of Fig. 2. Fig. 4 is a perspective view of the guard. Fig. 5 is a top plan view of the guard. Fig. 6 is a side view of the guard. Fig. 7 is a bottom plan view of the guard.

The invention is adapted for reciprocating-saw mills, and is designed to be used with gates and a gang of saws of any well-known type. The gate A, gang of saws B, and the fastenings between the saws and the gate are of common construction and arrangement, and are selected for this reason to better illustrate the application of the invention. The tabs *b* at the lower ends of the saws and the fastenings C are of common form. The guard

D of metal, cast-steel being preferred, is approximately triangular in form and of a width corresponding with the space between the saws. The edges *d* and *d'* slope in opposite directions and form the chisel-edge *d²*. The base E of the guard is cut away on its under side at *e* to receive and rest upon the fastenings C, which hold the guard in place between the saws. The portions of the base at each end of the depressed portion *e* rest upon the tabs *b*. The guard is held from vertical displacement between the saws by frictional contact of its sides with the opposing sides of the saws. For lightness the guard is cored and its sides are depressed. The guards being placed between the saws B, the chisel-edge pointing up, the operation is evident. The sloping sides *d* and *d'* prevent the lodgment of sawdust between the saws and the chisel-edge *d²* severs any chips or pieces of wood that may fall across the guard. The chisel-edge *d²* extends between the saws in an oblique direction, as most clearly shown in Fig. 5, to cut the chips, &c., which may fall across it in a better and easier manner.

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

1. In a reciprocating-saw mill, the combination, with the gate and the saws, of a guard removably inserted between the saws and having its upper surface sloping in opposite directions and provided with a chisel-edge oblique to the plane of the saws, substantially as described, for the purpose set forth.

2. In a reciprocating-saw mill, the combination, with the saws having tabs and the saw-fastenings, of the guards placed between the saws and sloping on its top side and having a depression on its under side to receive the upper ends of the saw-fastenings, substantially as set forth.

3. The hereinbefore-specified guard to be placed between the saws of a reciprocating-saw mill, composed of cast-steel, cored, and having its sides depressed and having its top sloping in opposite directions, and having its under side depressed, substantially as described, for the purpose specified.

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

KEARN DOLEN.

Witnesses:

WILLIAM COLLINS,
CULLEN HOLWAY.