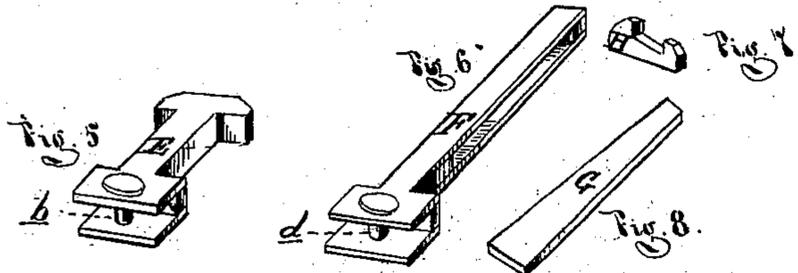
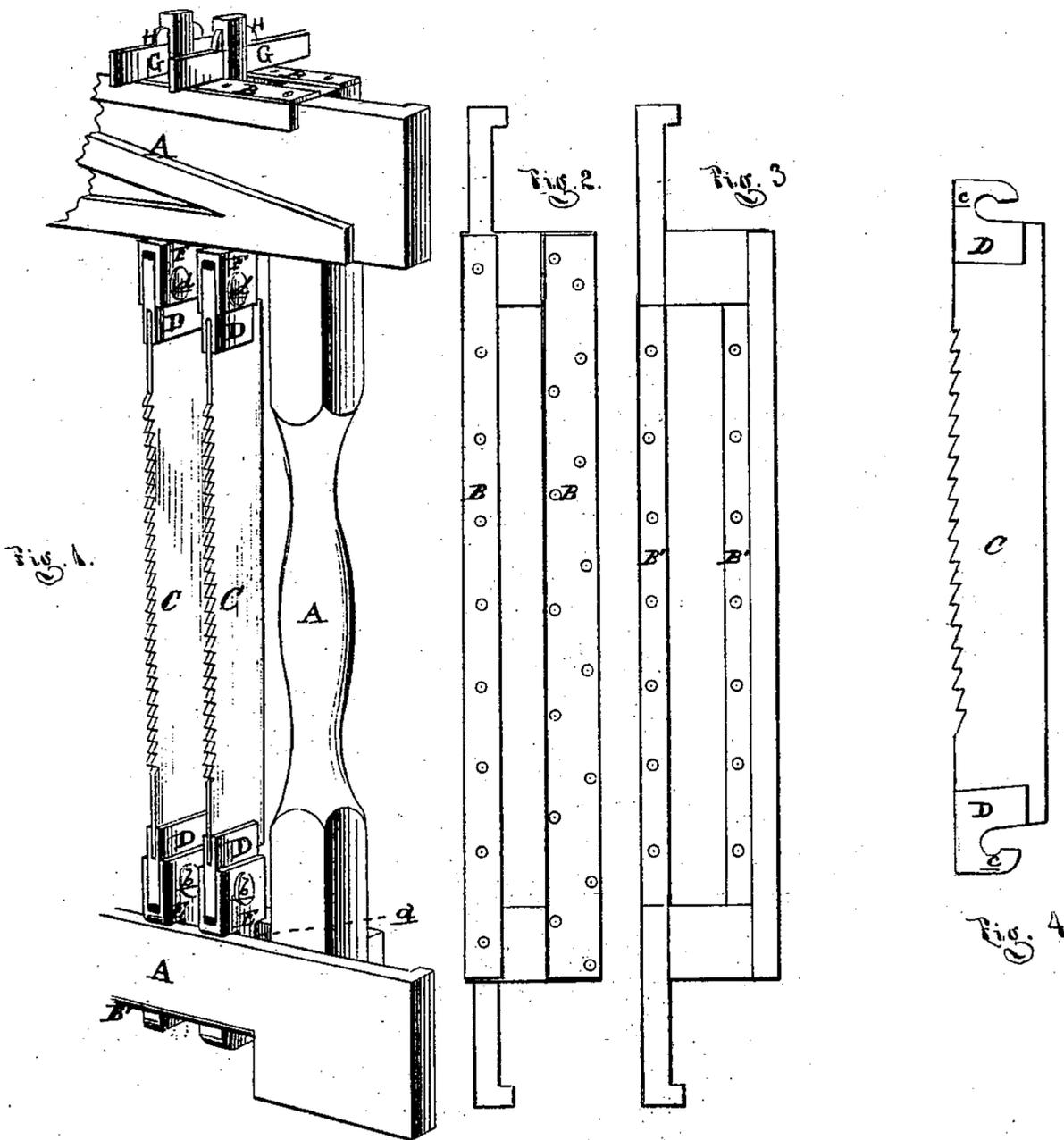


M. Delude,

Saw Mill.

No. 108,981.

Patented Nov. 8. 1870.



ATTEST
Frederick Obert,
Patrick W. Bacon

INVENTOR
M. Delude
per Atty
Thos. E. Sprague

United States Patent Office.

MOSES DELUDE, OF CARROLTON, MICHIGAN.

Letters Patent No. 108,981, dated November 8, 1870.

IMPROVEMENT IN SAW-MILLS.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, MOSES DELUDE, of Carrolton, in the county of Saginaw and State of Michigan, have invented a new and useful Improvement in Gang-Saw Hangings; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective view of a portion of a gang-frame or gate, showing my improved method of straining the saws therein.

Figures 2 and 3 are plans of the bearing-plates on the cap and under the sill of the gate.

Figure 4 is a side elevation of a saw fitted with my hooked straps.

Figure 5 is a perspective of the lower, and

Figure 6 of the upper buckle.

Figures 7 and 8 are perspectives of the gib and key, respectively.

Like letters indicate like parts in each figure.

The nature of my invention relates to an improved method of hanging and straining saws in gang-frames or gates; and

it consists in the peculiar shape and arrangement of the lower buckles.

In the drawing—

A represents a gang-frame or gate, of the usual construction, except that the sill, instead of being solid, is provided with a transverse vertical slot, *a*.

B are metallic plates laid on the upper edges of the slotted cap, and

B' are similar plates secured to the lower faces of the sill.

C are the saws, provided at each end with a strap, D, hooked and opening toward the back of the saw, as shown at *c*, fig. 4.

E are I-shaped buckles, whose lower ends engage with the lower faces of the sill resting against the plates

B. The shanks of these buckles project up through the slot *a*, and terminate in heads slotted to receive the saw-straps.

In each slot is a transverse pin, *b*, with which the hook of the strap engages. Once in place, these buckles are not required to be removed, but are susceptible of lateral adjustment in the sill by sliding to and fro.

F are the upper buckles, in like manner provided with a pin, *d*, in the slot at the lower end, with which engage the hooks in the upper straps. The slotted shanks of these buckles project up through and above the cap of the gate.

The saws being hooked in, the pins are strained by driving the keys G under the gibs H in the upper part of the slotted shanks, and over the plates B at the top of the cap.

It will be noticed that the strain from the log on the saw comes from the face or toothed edge, so that the saw cannot be detached until the key is loosened.

The entire set of saws in a gang requires to be removed every few hours for fling, and, as at present arranged, considerable time is consumed in their removal and adjustment again. With these hangings all that is required is to simply loosen a key, remove the saw, slip in another, and tighten the key again, requiring but little time in the operation.

Where all the saws are removed at once, and replaced by a fresh set, the usual gauge-blocks are placed between them in resetting.

What I claim as my invention, and desire to secure by Letters Patent, is—

The I-shaped buckles E, provided with pins *b*, in connection with the slotted sill of a gang-frame, and the hooked straps D, as and for the purpose herein specified.

MOSES DELUDE.

Witnesses:

FREDERICK EBERTS,
PATRICK F. BARRY.