G. D. Pearson,

Drag Saw.

No. 40,059. Patented Sep. 22, 1863.

Fig. 1.

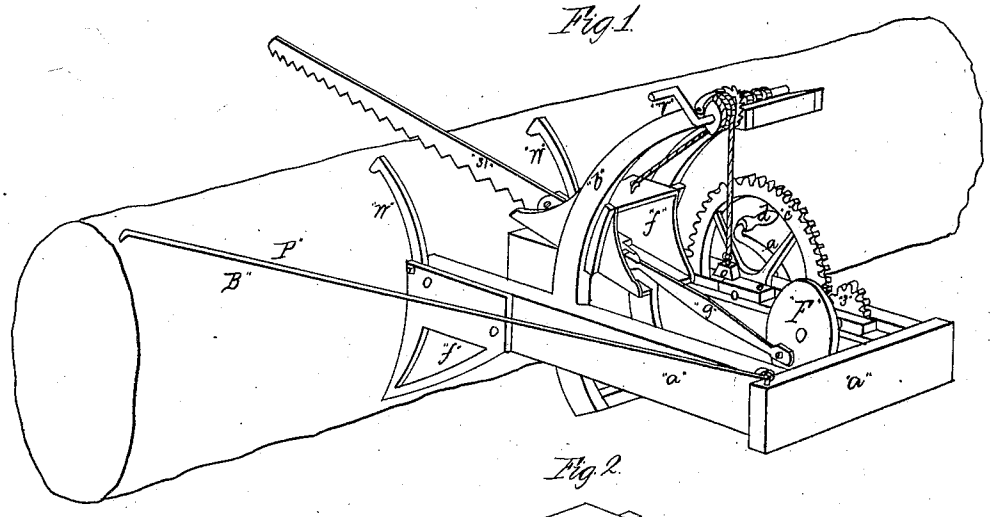


Fig. 2.

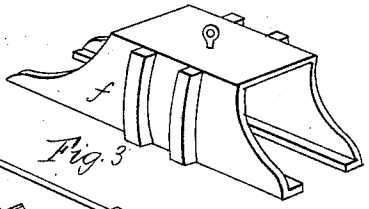
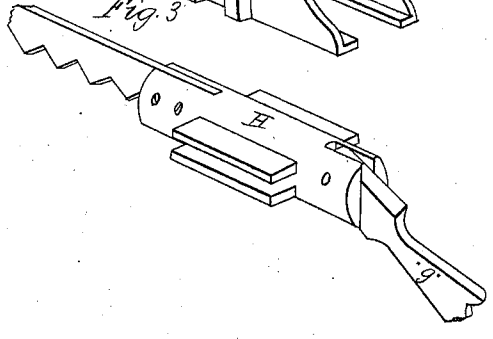


Fig. 3



Witnesses.

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UNITED STATES PATENT OFFICE.

GABRIEL D. PEARSON, OF YPSILANTI, MICHIGAN.

IMPROVED CROSSCUT-SAWING MACHINE.

Specification forming part of Letters Patent No. **40,059**, dated September 22, 1863.

To all whom it may concern:

Be it known that I, GABRIEL D. PEARSON, of the city of Ypsilanti, in the county of Washtenaw and State of Michigan, have invented a new and useful Machine for Cross-Cut Sawing; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of my machine. Fig. 2 is the guide-block. Fig. 3 is the saw-guides and working-bar.

To enable others to make and use my invention, I will proceed to describe its construction and operation.

The frame-work *a a* requires no specific description.

b b are two circular guide posts between which the guide block is held in proper position, and is raised and lowered as requisite.

C is a driving-wheel and axle to which is attached the handle-crank *d*.

E is a small cog-wheel, gearing into driving-wheel C, and fixed to a shaft, at the end of which is a balance-wheel, F, to which is attached the working-bar *g* by a wrist on the balance wheel F, forming a crank of the proper length to give the saw the desired length of cut. The working-bar *g* is attached by a joint to a grooved slide cross-head, *h*, working on flanges of the guide-block, and to which cross-head *h* is firmly fixed the saw *k*.

L L are two wrought-iron steel-pointed brace hooks or clutches fastened by bolts to the end of the machine frame, so shaped as to grip or clutch the front side of the log.

M M are two clasp cant-hooks, steel pointed, hanging in a joint in the corners of the machine-frame, which clasp over the top and hook into the log, thus firmly attaching to the log clear of the ground and in such a position as may be desirable.

N is a small hand crank and shaft in top of circular guides *b b*, to the shaft of which is attached a small cord running down to guide-block J, by means of which the saw is raised from the log at the will of the operator. O is a small weight and cord attached to the crank-shaft N, to partially balance the weight of the guide-block and working-bar, and thus prevent the saw running too heavy in the log.

The machine is operated by being attached to the log clear from the ground by means of the hooks L L and M M, and when firmly attached is firmly braced by the brace-rod P, and is easily operated by one man by the crank D.

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

The combination of the working-bar G, saw K, and guide-block J, with the circular guide-posts *b b*, and the mode of raising and lowering the saw by means of the crank-shaft N, and the manner of attaching the machine to the log, arranged and operated in the manner and for the purpose herein explained.

GABRIEL D. PEARSON

Witnesses:
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