

S. Snyder

Log Turning & Loading

N^o 92,388.

Patented July 6, 1869.

Fig. 1.

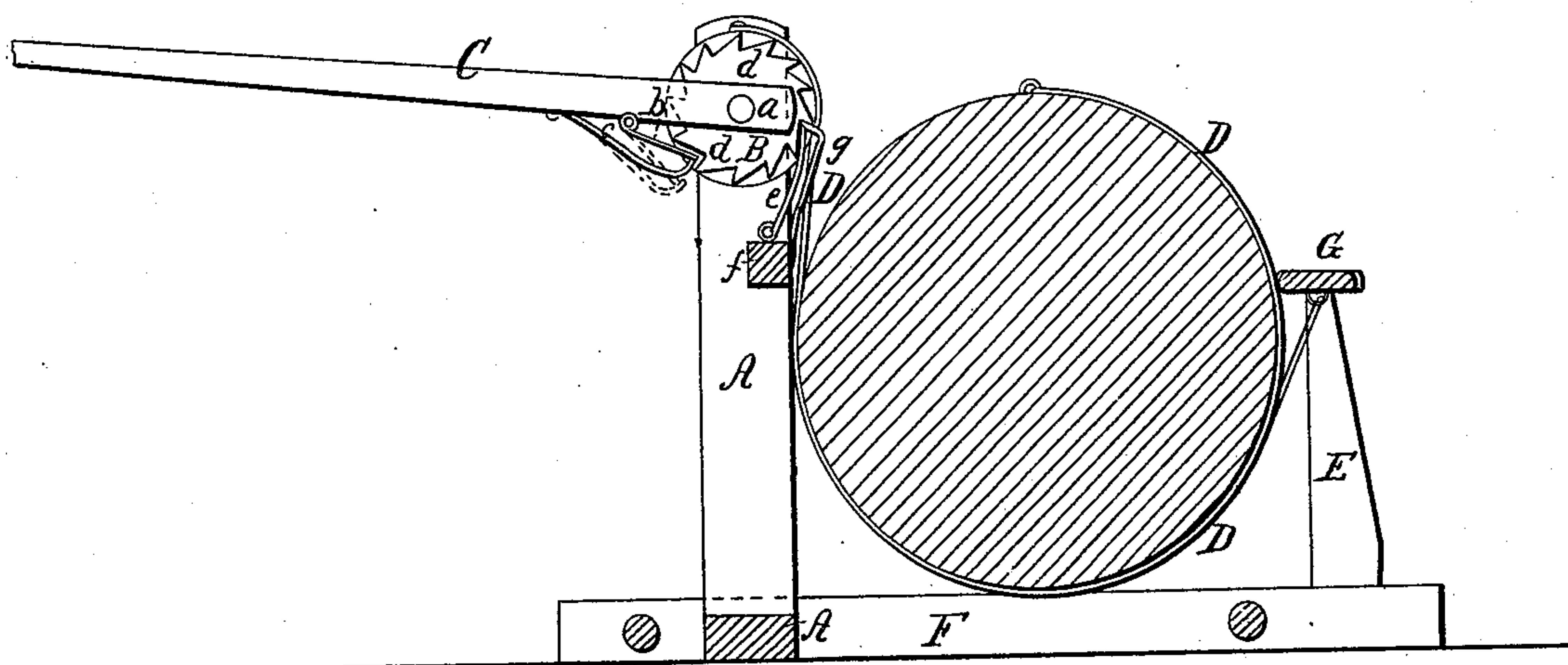
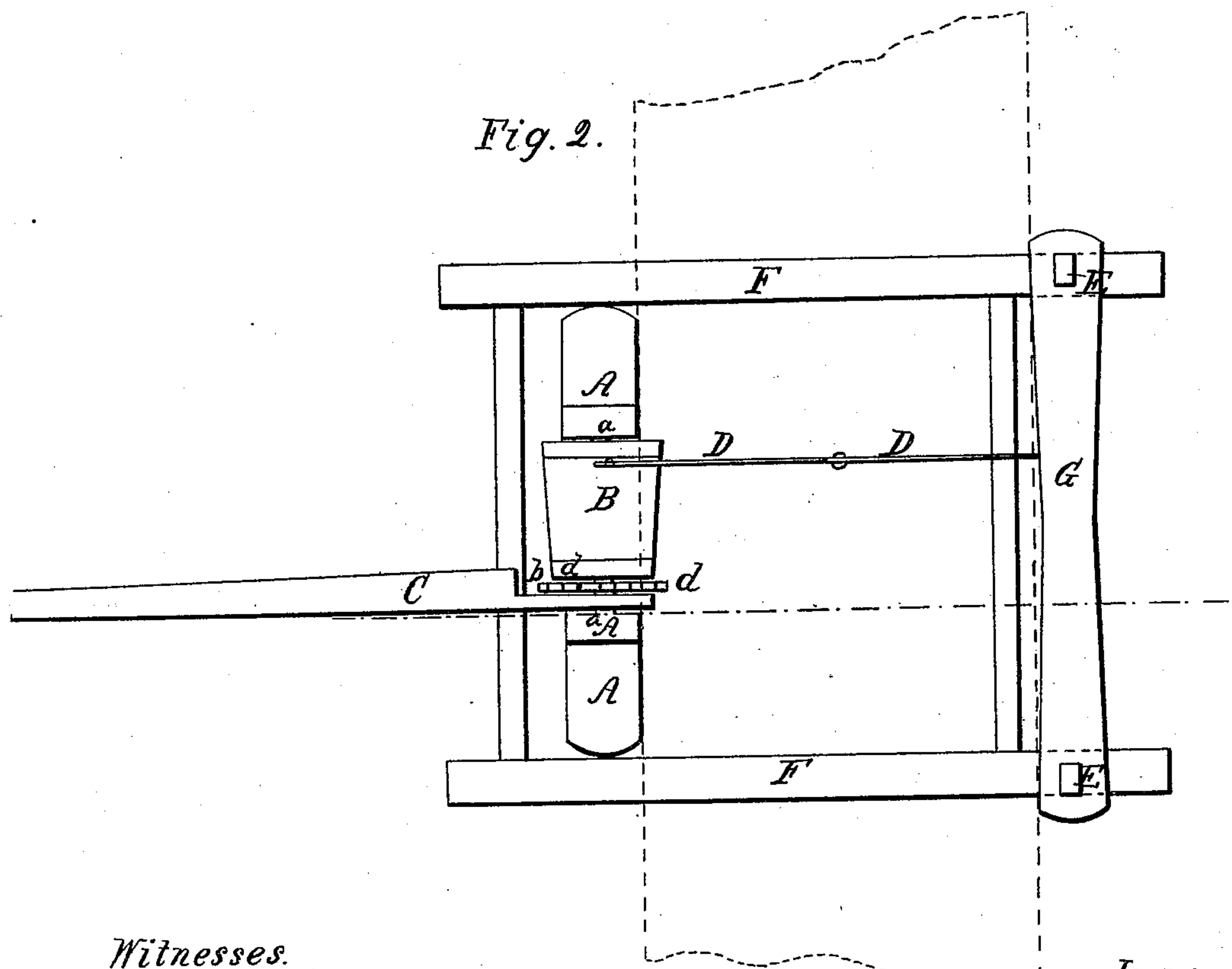


Fig. 2.



Witnesses.

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SAMUEL SNYDER, OF DELAWARE, OHIO.

Letters Patent No. 92,388, dated July 6, 1869.

IMPROVEMENT IN DEVICE FOR TURNING AND LOADING LOGS.

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

To all whom it may concern:

Be it known that I, SAMUEL SNYDER, of Delaware, in the county of Delaware, and State of Ohio, have invented a new and improved Log-Turner and Loader; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 represents a vertical transverse section of my improved log-turner and loader.

Figure 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus, by means of which logs can readily be turned on stationary and portable saw-mills, and by means of which also logs and lumber of all kinds can readily be loaded upon sleds, skids, or other devices.

The invention consists in the application of a portable horizontal windlass provided with ratchet-wheel and pawl, which, in combination with a proper rope or chain fastened to the drum or roller of the windlass, will operate to turn or elevate a log without difficulty, as hereinafter more fully described.

A, in the drawing, represents a movable frame of suitable size and construction, in which a horizontal shaft or drum, B, is hung, as shown.

A lever, C, swings loosely on the axle *a* of the drum B, and carries a pivoted pawl, *b*, which is, by a spring, *c*, held against the teeth of a ratchet-wheel, *d*, that is mounted on the drum.

Another pawl, *e*, which is pivoted to a cross-bar, *f*, of the frame A, is, by a spring, *g*, also held against the teeth of the ratchet-wheel.

A rope or chain, D, is fastened to the drum.

When this device is to be used for turning a log on a saw-mill, it is placed in front of the log, nearly opposite the middle of the same, so that the log is between the upright frame A and the standards E, on the head-blocks F, as in fig. 1. The chain or rope D is then drawn under the log and around it, and is fastened to the upper side of the same. The lever C is

then moved to turn the drum by means of its pawl *b*, so as to wind the rope around the drum. The log is by such motion readily turned on the head-block, one man being able to turn it, while heretofore a number of hands were employed for the purpose.

I am aware that log-turners have heretofore been used on saw-mills, but they were so complicated that they were very expensive, and they could not be arranged portably, like mine.

The pawl *e* prevents the drum from turning back during the operation.

When the lever is to be liberated, the pawls are thrown off the ratchet-wheel by being fitted under the bent ends of their respective springs, as shown by red lines in fig. 1. The lever can then be freely turned in either direction, as well as the drum, but each separately.

For loading logs or lumber, I place the device opposite the log, as shown, and connect the rope or chain, as per red lines in fig. 1, with a cross-bar, G, which is fitted across the standards E. The log will, when the windlass is turned, be elevated and thrown over the said cross-bar. In this latter form, the apparatus can be used for loading logs in woods and other places, upon vehicles or other suitable devices.

Having thus described my invention,

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

1. A portable log-turner, consisting of the frame A, drum B, lever C, pawls *b* and *e*, and rope or chain D, all arranged and operating, in combination with the standards E, substantially as herein shown and described.

2. A portable log-loader, consisting of the frame A, drum B, lever C, spring-pawls *b*, *e*, and rope or chain D, all arranged and operating, in combination with the standards E and cross-bar G, substantially as herein shown and described.

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Witnesses:

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