W. A. OVERCASH.

LOG TURNER DOG.

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965,731.

Patented July 26, 1910.

Fig. 1.

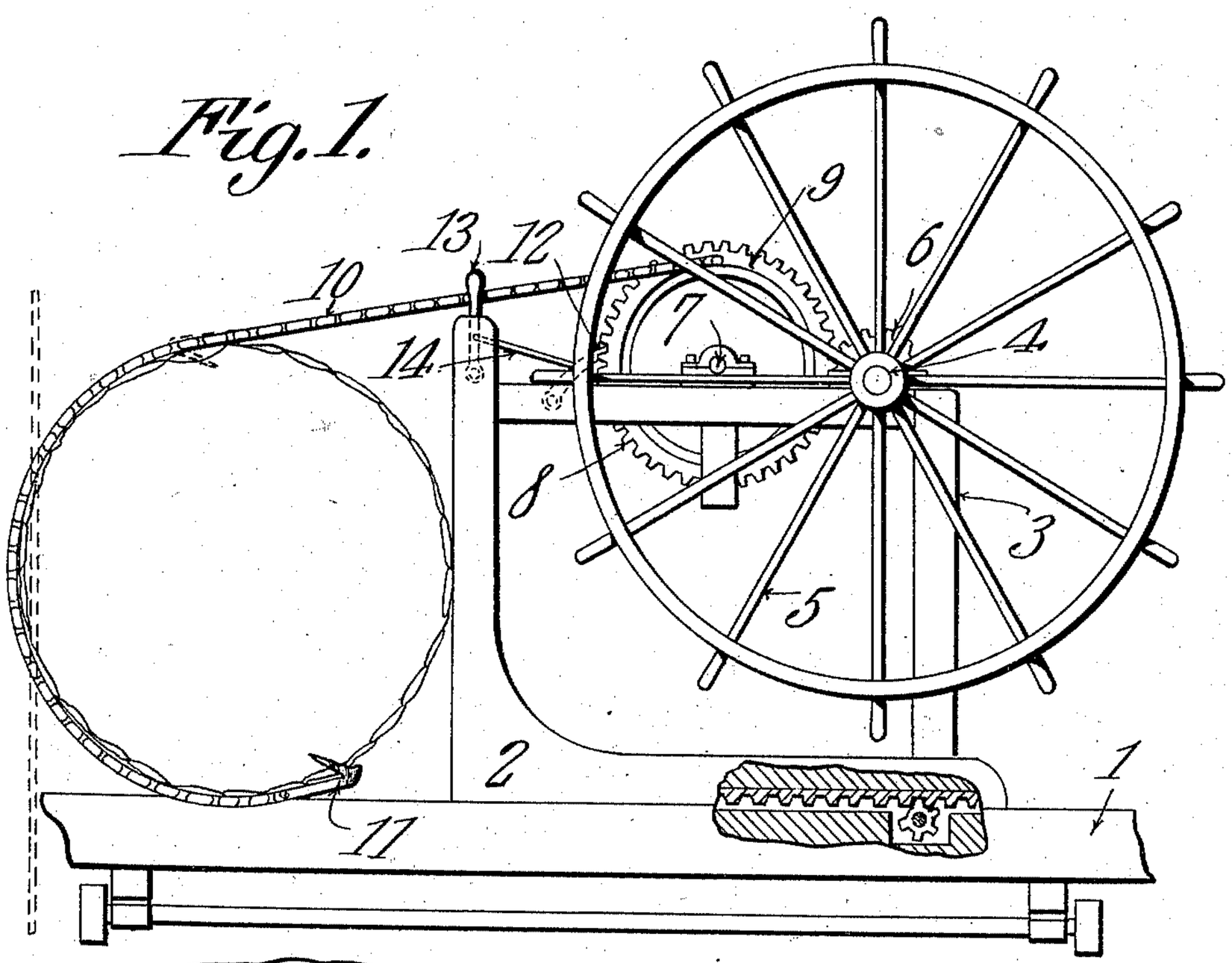
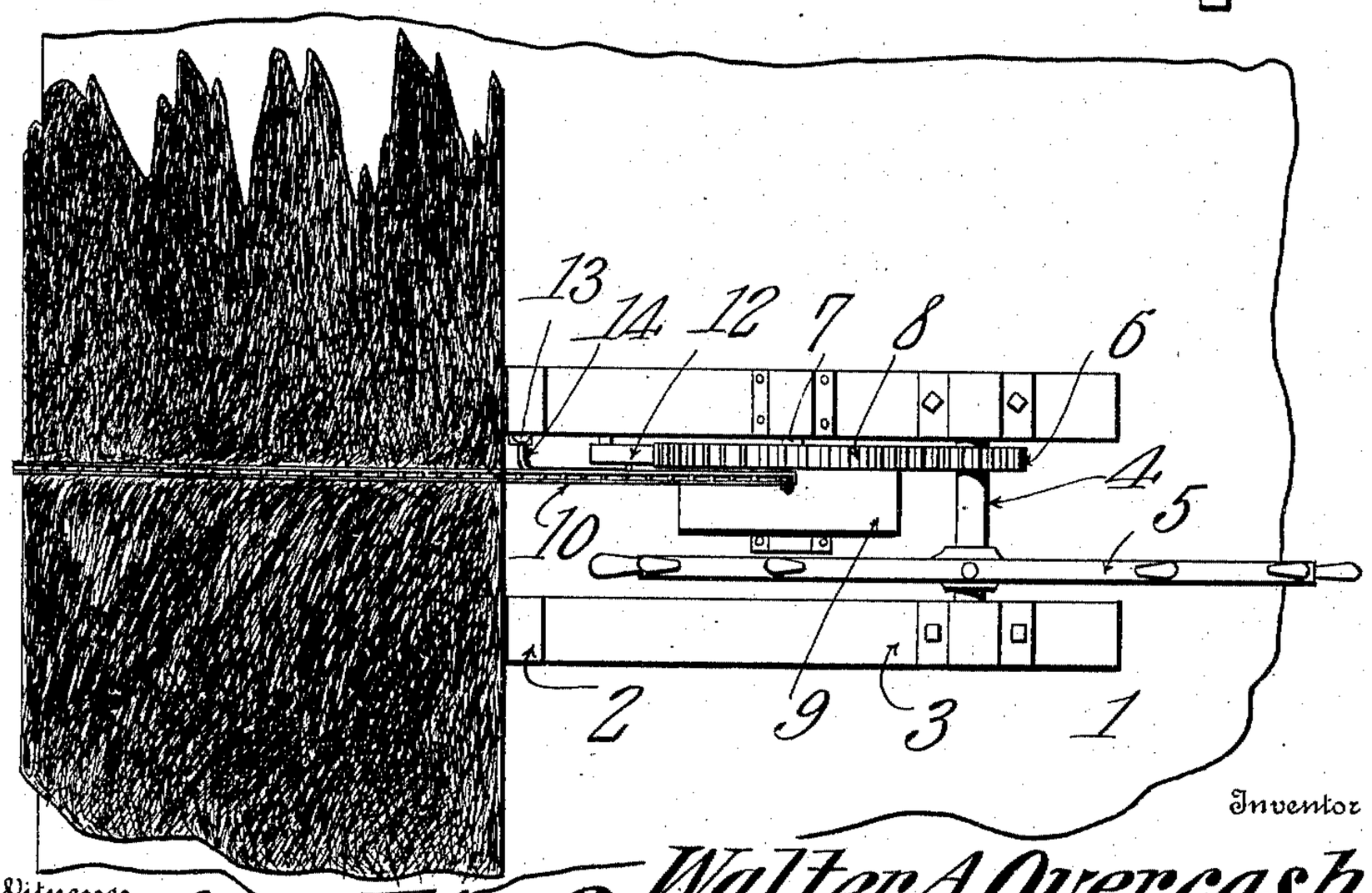


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

WALTER A. OVERCASH, OF STATESVILLE, NORTH CAROLINA.

LOG-TURNER DOG.

965,731. Specification of Letters Patent. **Patented July 26, 1910.**

Application filed January 4, 1910. Serial No. 536,306.

To all whom it may concern:

Be it known that I, WALTER A. OVERCASH, a citizen of the United States, residing at Statesville, in the county of Iredell and State of North Carolina, have invented a new and useful Log-Turner Dog, of which the following is a specification.

This invention has relation to log turners and dogs and it consists in the novel construction and arrangement of its parts as hereinafter shown and described.

The object of the invention is to provide a simple and an effective structure adapted to be applied to the knees or upon the carriage of a saw mill and which may be easily and readily operated or manipulated to turn the log at the time that the same is being squared or at other times.

With the above object in view, the turner and dog consists of a drum mounted for rotation and to which is attached one end of a chain or cable. A hook is connected at the other end of the said chain or cable and is adapted to be driven or drawn into the log. A train of gears operatively connect the said drum with a primary shaft upon which is mounted a hand wheel and the structure as above described is supported upon the knee or carriage of the saw carriage.

In the accompanying drawing:—Figure 1 is a side elevation of the log turner and dog with parts in section. Fig. 2 is a top plan view of the log turner and dog.

The carriage 1 is of usual form and the knee 2 is movably mounted upon the said carriage in the usual manner. A frame structure 3 is mounted upon the knee 2 and a primary shaft 4 is journaled for rotation upon the said frame 3. A hand wheel 5 is fixed to the primary shaft 4 as is also a pinion 6. A secondary shaft 7 is journaled upon the frame 3 and a gear wheel 8 is fixed to the said secondary shaft 7. The wheel 8 meshes with the pinion 6. A drum 9 is formed or located at the side of the wheel 8 concentrically therewith and one end of a chain or cable 10 is fixed to the periphery of the said drum 9. The other end of the said chain or cable 10 is provided with a hook 11 which is adapted to be driven into the periphery of the log resting upon the carriage 1.

From the above description, it will be seen that when a log is resting upon the edge of the carriage 1 and against the knee 2 and it is desired to turn the same, the hook 11 is driven into the periphery of the said log at the lower portion of the same, then by turning the hand wheel 5 the shaft 4 is rotated which in turn through the pinion 6 and gear wheel 8 rotates the drum 9. Thus the chain or cable 10 is wound upon the drum and as the hook 11 is drawn toward the drum the log is turned upon the carriage. After the log has been properly positioned upon the carriage, the hook 11 and chain or cable 10 may be used as a dog for holding the log in position. A means for holding the parts in fixed position is provided, said means consisting of a pawl 12 pivotally mounted upon the frame 3 and adapted to engage at its free end the teeth of the wheel 8. A lever 13 is pivoted to the upper end of the knee 2 and is operatively connected with the pawl 12 by means of a link 14. Thus it will be seen that when the lever 13 is swung so that the free end of the pawl 12 engages the teeth upon the wheel 8, the said wheel and attached drum 9 is restrained against rotation but when the lever 13 is swung so that the link 14 draws the free end of the pawl 12 out of engagement with the teeth of the wheel 8, the said wheel and attached drum 9 are free to rotate upon the axis of the shaft 7.

Having described the invention, what I claim as new and desire to secure by Letters Patent is:

In combination with a carriage a knee movably mounted thereon, means for moving the knee, a log turner comprising a frame attached to the knee, a primary shaft journaled upon the frame, a hand wheel fixed to said shaft, a secondary shaft journaled upon the frame, intermeshing gear wheels fixed to the respective shafts, a drum mounted for rotation coincident with the wheel upon the secondary shaft and a flexible element arranged to wind upon said

drum and carrying at the free end a hook, the parts being so arranged that when the hook is attached to a log upon the carriage, the said logs may be turned by winding the flexible element upon the drum or by moving the knee upon the carriage.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WALTER A. OVERCASH.

Witnesses:
GEO. R. ANDERSON,
E. M. HICKS.