(No Model.)

C. MATHESON.

SELF TRIPPING PULLEY BLOCK.

No. 504,928. Patented Sept. 12, 1893.

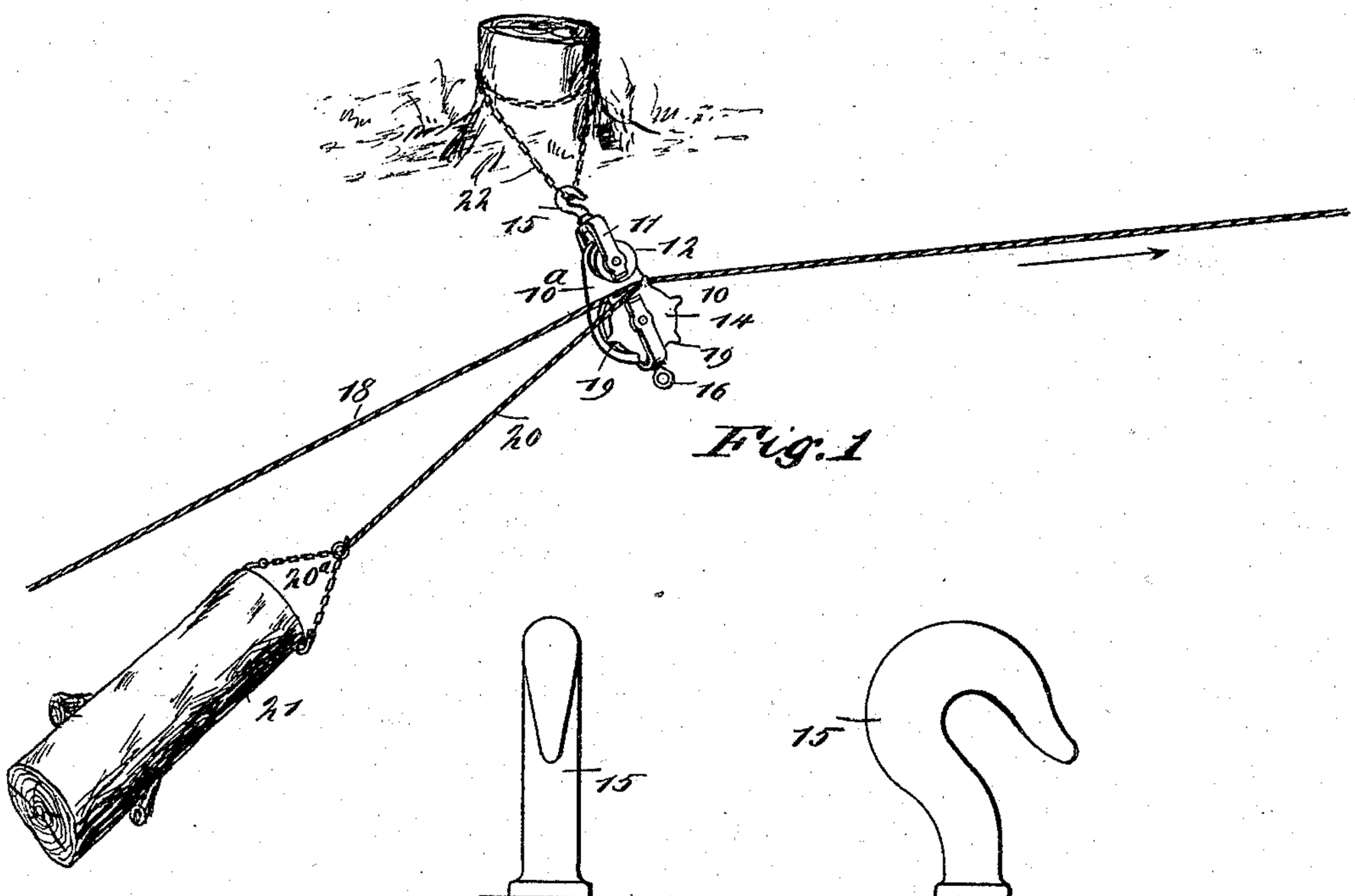

Fig. 1

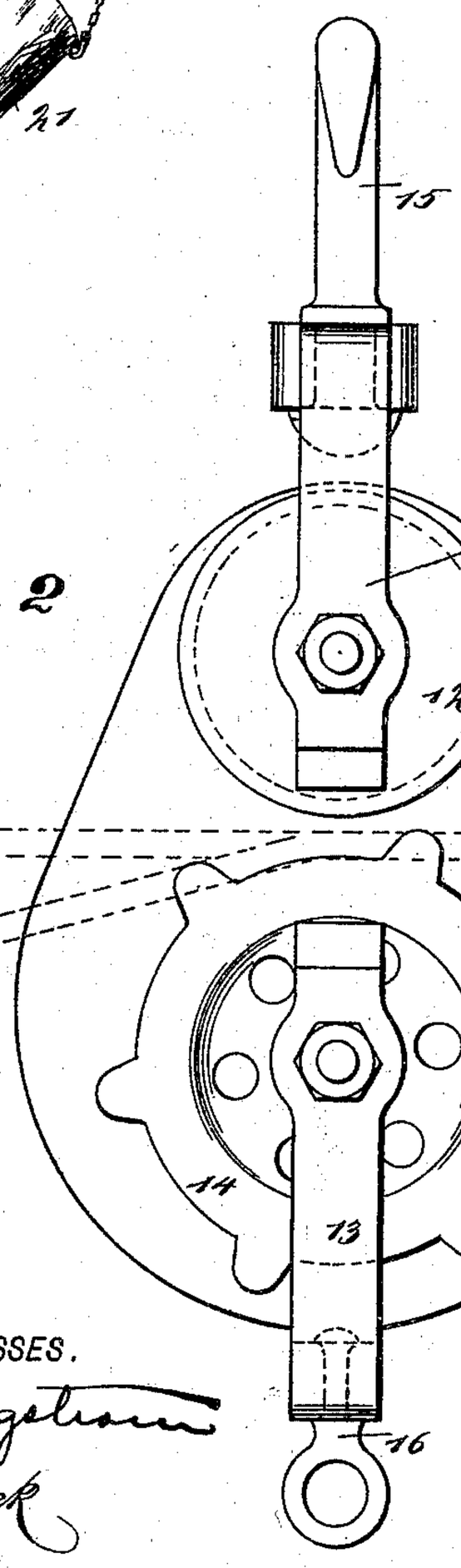

Fig. 2

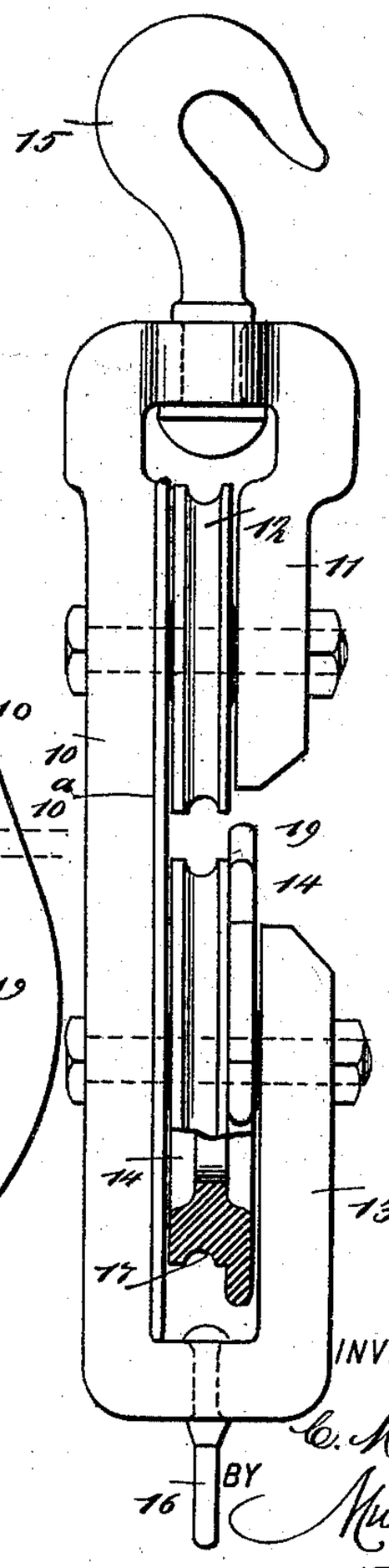

Fig. 3

WITNESSES.

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COLIN MATHESON, OF EUREKA, CALIFORNIA.

SELF-TRIPPING PULLEY-BLOCK.

SPECIFICATION forming part of Letters Patent No. 504,928, dated September 12, 1893.

Application filed June 8, 1893. Serial No. 476,926. (No model.)

To all whom it may concern:

Be it known that I, COLIN MATHESON, of Eureka, in the county of Humboldt and State of California, have invented a new and Improved Self-Tripping Pulley-Block, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of pulley blocks which are used in connection with cables for drawing logs, cars, or other loads, and the object of my invention is to produce a pulley block which is particularly advantageous in carrying the loads referred to around curves, and which at such curves, trips the branch cables which carry the load directly, so that the cables may swing outward from the block and facilitate a good turn. This obviates the necessity of dragging the cables on the ground, and enables the load to be carried easily and with comparatively little wear and tear on the pulley blocks.

To these ends, my invention consists in certain features of construction and combinations of parts, as will be hereinafter more fully described and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a broken perspective view, illustrating the manner in which my improved pulley block is used. Fig. 2 is an enlarged side elevation of the pulley block; and Fig. 3 is an edge view of the same, with the tripping wheel or pulley partly in section.

The block 10 is of substantially the usual kind, having a guard 10^a next the pulleys, and its upper end 11 doubled over to form a convenient support for the upper grooved pulley 12, which is of substantially the usual kind, and its lower end doubled in the customary way, as shown at 13, to form a support for my improved pulley 14, a space being left between the two pulleys and the doubled ends of the block, in which the branch cable may swing as hereinafter described. The block is provided with the usual swivel hook 15 at its upper end, and the customary eye 16 at its lower end to which a rope or chain may be made fast, to assist in holding the pulley block when necessary.

The pulley 14 which forms the most essential part of my invention is provided with a face groove 17, in which the main cable 18 runs, and on the outer edge of the pulley are cogs 19, which are adapted to engage the branch cable 20, and lift the cable from the face of the pulley so that it may swing outward, as shown in Fig. 1, thus enabling the load carried by the pulley to swing easily around a curve, while the main cable 18 runs in the groove 17 of the pulley 14.

The use of the pulley block is illustrated in Fig. 1, which represents the main cable going around a curve, at which points the improved self tripping pulley block is especially valuable. The branch cable 20 is spliced to the main cable in the usual way, and connected by a suitable fastening 20^a with a log 21, which is to be dragged along by the main cable, but it will be understood that instead of the log, the cable may be applied to a car or to any other load. The hook 15 of the pulley block is secured to a chain 22, which is made fast to a stump, tree, or any convenient support at the curve of the cable. When the cable 18 is running along a straight line, the branch cable 20 will hang beneath it, and the load will travel along in the usual way, and when a curve is reached, the branch cable will naturally swing out slightly, and being engaged by the cogs 19, will be lifted from the face of the pulley 14, and permitted to swing out from the open side of the block, as illustrated in Fig. 1, and thus run smoothly around the curve.

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

1. As an improved article of manufacture, a pulley block having an open side, a pulley journaled in the upper portion of the block, and a second pulley journaled in the lower portion and provided near one edge with projecting cogs, substantially as specified.

2. The combination, with the main cable and the branch cable thereon, of the pulley block having an open side, a pulley journaled in the upper portion of the block, above the

said opening, and a second pulley journaled in the lower portion of the block and provided at its outer edge with projecting cogs, substantially as specified.

3. As an improved article of manufacture, a pulley block having a side opening, a pulley journaled in the block above the opening, and a second pulley journaled in the block below the opening, the second pulley having a grooved face to receive the cable and projecting cogs at its outer edge, substantially as specified.

COLIN MATHESON.

Witnesses:
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