

W. VAN NAME & J. A. WAKEFIELD.

Lumber Chutes.

No. 135,302.

Patented Jan. 28, 1873.

Fig. 3.

Fig. 1.

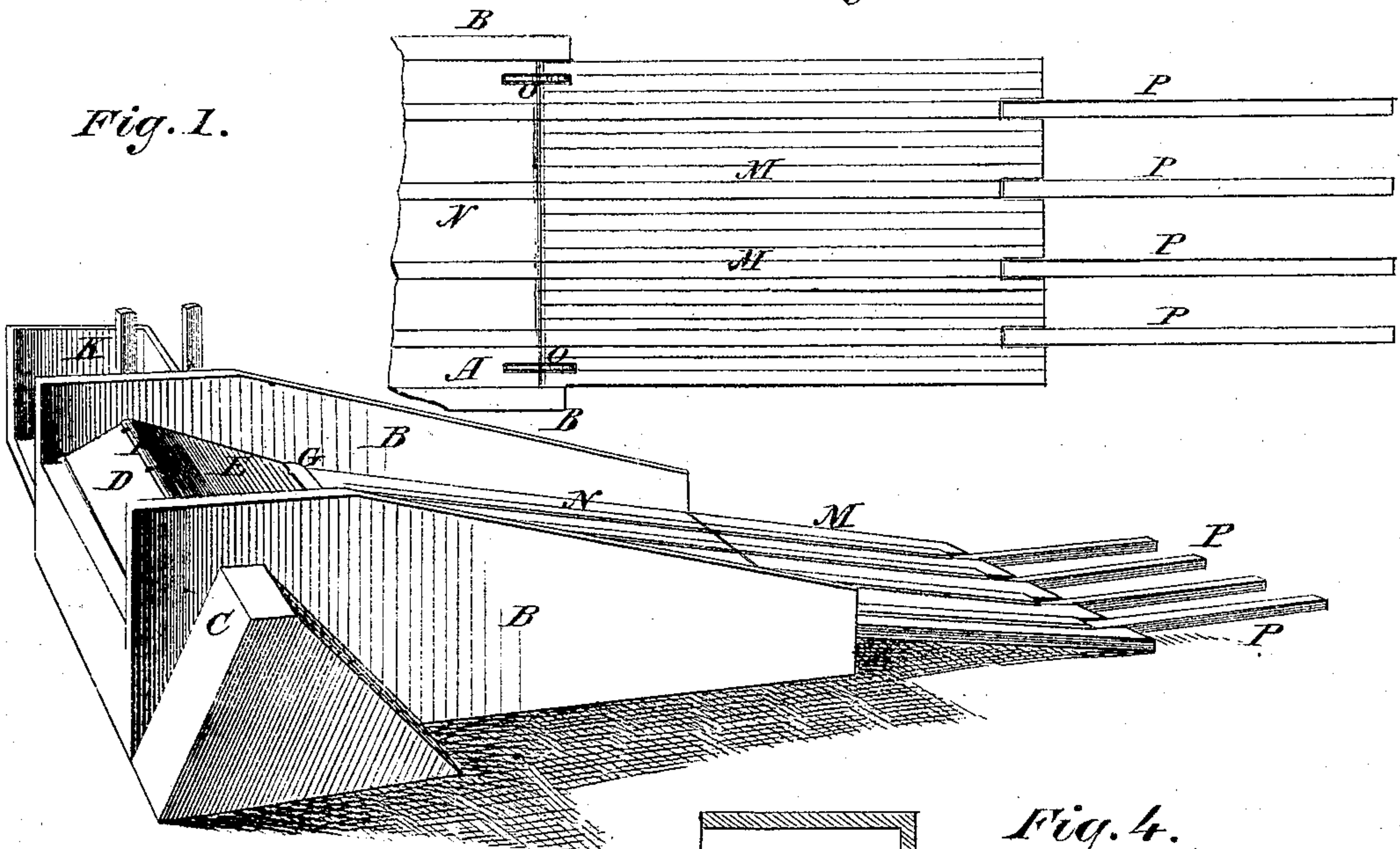
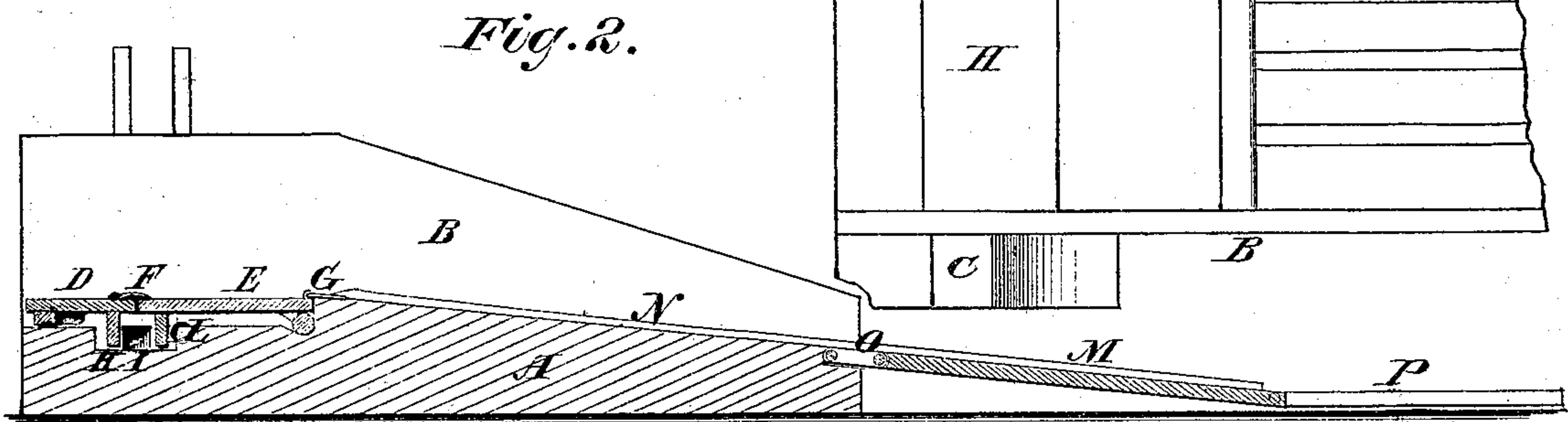


Fig. 4.



Witnesses:

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PER

UNITED STATES PATENT OFFICE.

WILLIAM VAN NAME AND JAMES A. WAKEFIELD, OF CHIPPEWA FALLS,
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IMPROVEMENT IN LUMBER-CHUTES.

Specification forming part of Letters Patent No. 135,302, dated January 28, 1873.

To all whom it may concern:

Be it known that we, WILLIAM VAN NAME and JAMES A. WAKEFIELD, of Chippewa Falls, in the county of Chippewa and State of Wisconsin, have invented a new and Improved Lumber-Chute, of which the following is a specification:

Our invention consists in the construction and arrangement, hereinafter described, of a log-chute with a double gate hinged together, and arranged upon the bottom of the way between the side pieces with a water-space under it, to which a passage is provided from the head of the chute to admit water under the hinged gate to regulate the height of the dam, which the hinged gate constitutes when raised by the water below it, and from which there is an escape-passage to let the water escape from under the hinged gate when the dam is to be lowered.

Figure 1 is a perspective view of our improved lumber-chute. Fig. 2 is a longitudinal section. Fig. 3 is a plan view of part of the chute, and Fig. 4 is partly a plan view and partly a horizontal section of part of the chute.

Similar letters of reference indicate corresponding parts.

A is the bed-piece, which is placed on the bed of the stream. B B are the piers or bulkheads on each side, up to which the earth dam C is built. D and E are the two parts of the gate, constituting the dam in the chute; they

are hinged together at F, and E is hinged to the bed-piece at G. H is the space under them, to which the water flows through the gate I and flume K to raise them up for damming the water back. L is the passage for drawing off the water when the dam is to be lowered; it opens to the lower side of the dam C to allow the water to run away, and has a gate for stopping it while the water is required to be retained under the gate D E. The bed-piece slopes downward below the gates D E for chuting the lumber, as shown at N, and has an apron, M, hinged to it at O, to adjust to the bed of the stream; and to the lower end of the apron there are bars or fingers P hinged to it as a prolongation of it, which is also capable of conforming to the bed of the stream.

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

1. The combination and arrangement of the bed A, piers B, dam C, gate D E, chamber H, flume K, passage I L, and gates therefor, all substantially as specified.

2. The apron M hinged to the bed-piece, and the bar P hinged to the apron, substantially as specified.

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Witnesses:

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