

(No Model.)

2 Sheets—Sheet 1.

J. DAHN.

SPRINKLING MACHINE.

No. 332,329.

Patented Dec. 15, 1885.

Fig. 1.

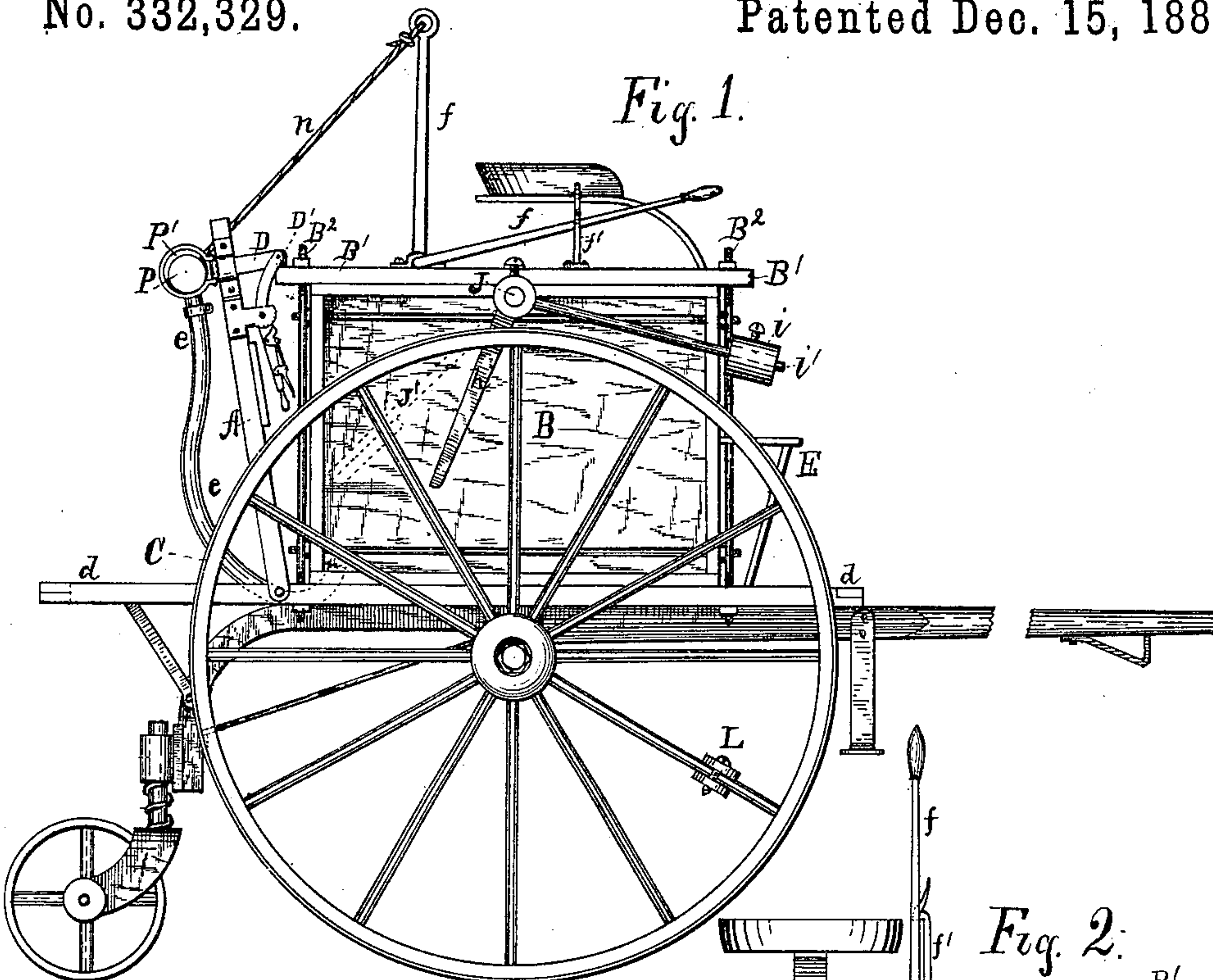
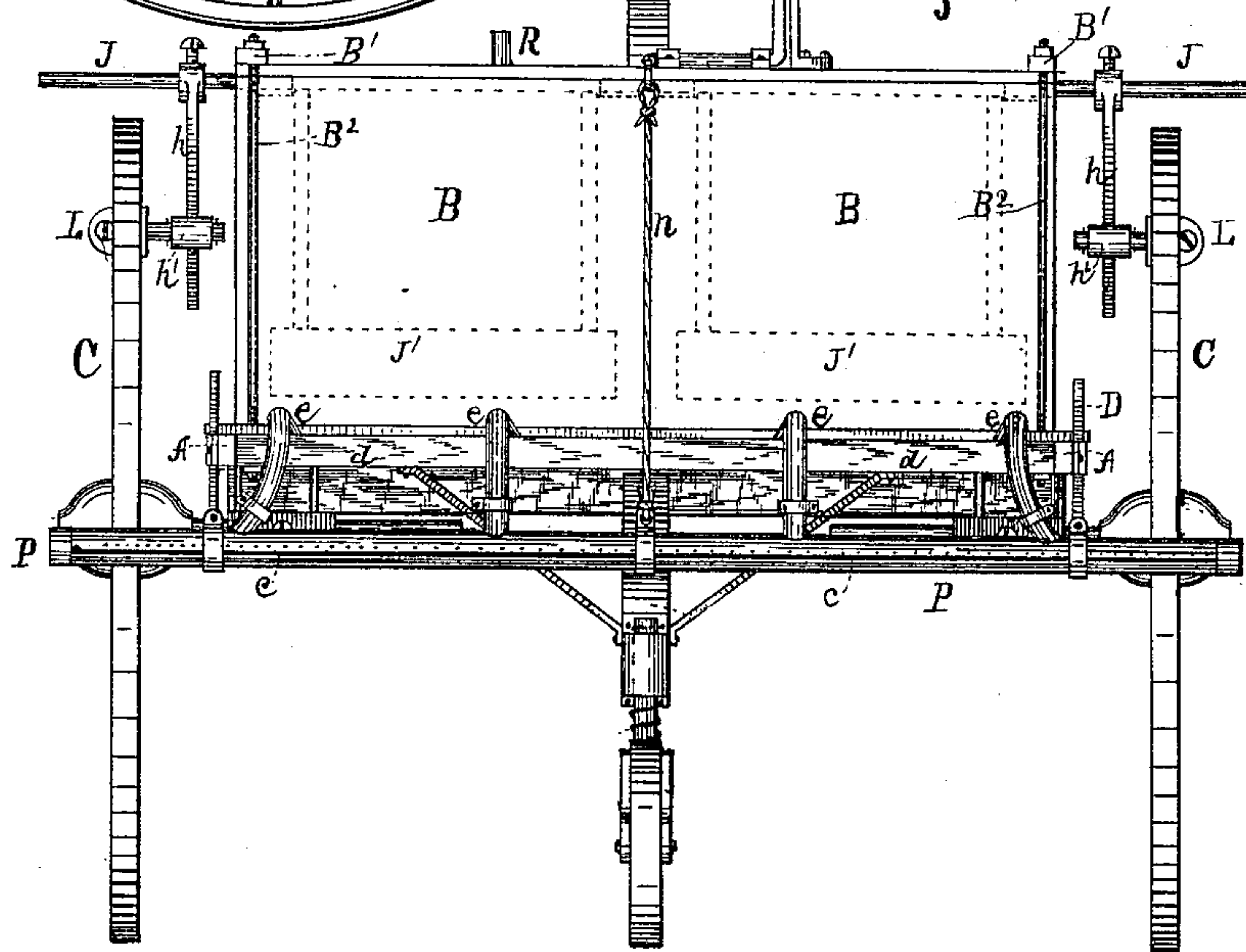


Fig. 2.



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2 Sheets—Sheet 2.

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Fig. 3.

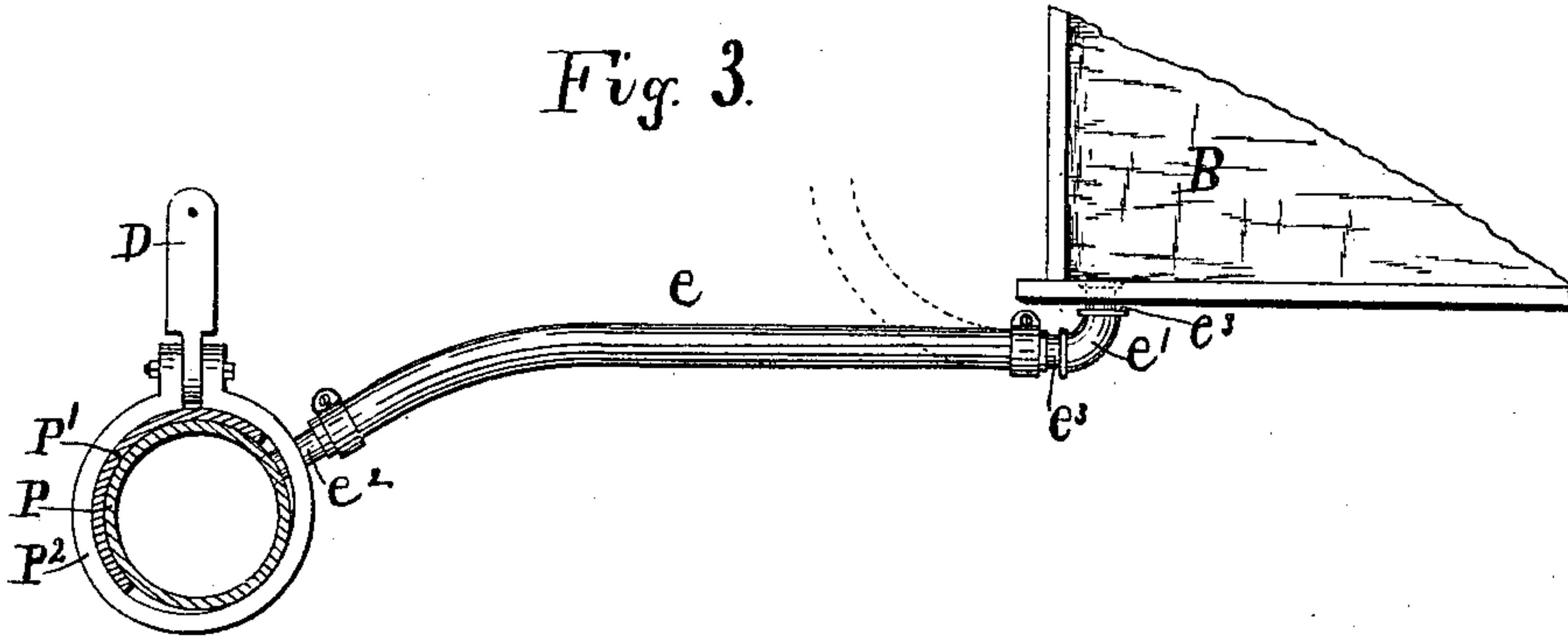


Fig. 4.

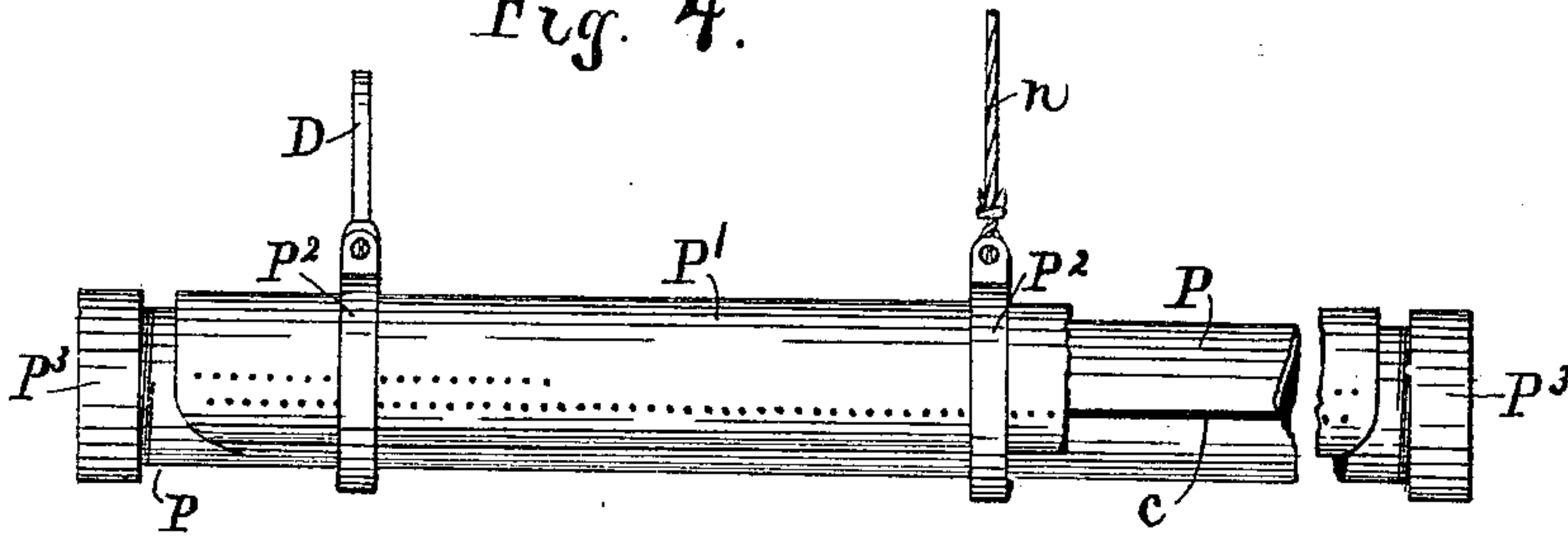


Fig. 5.

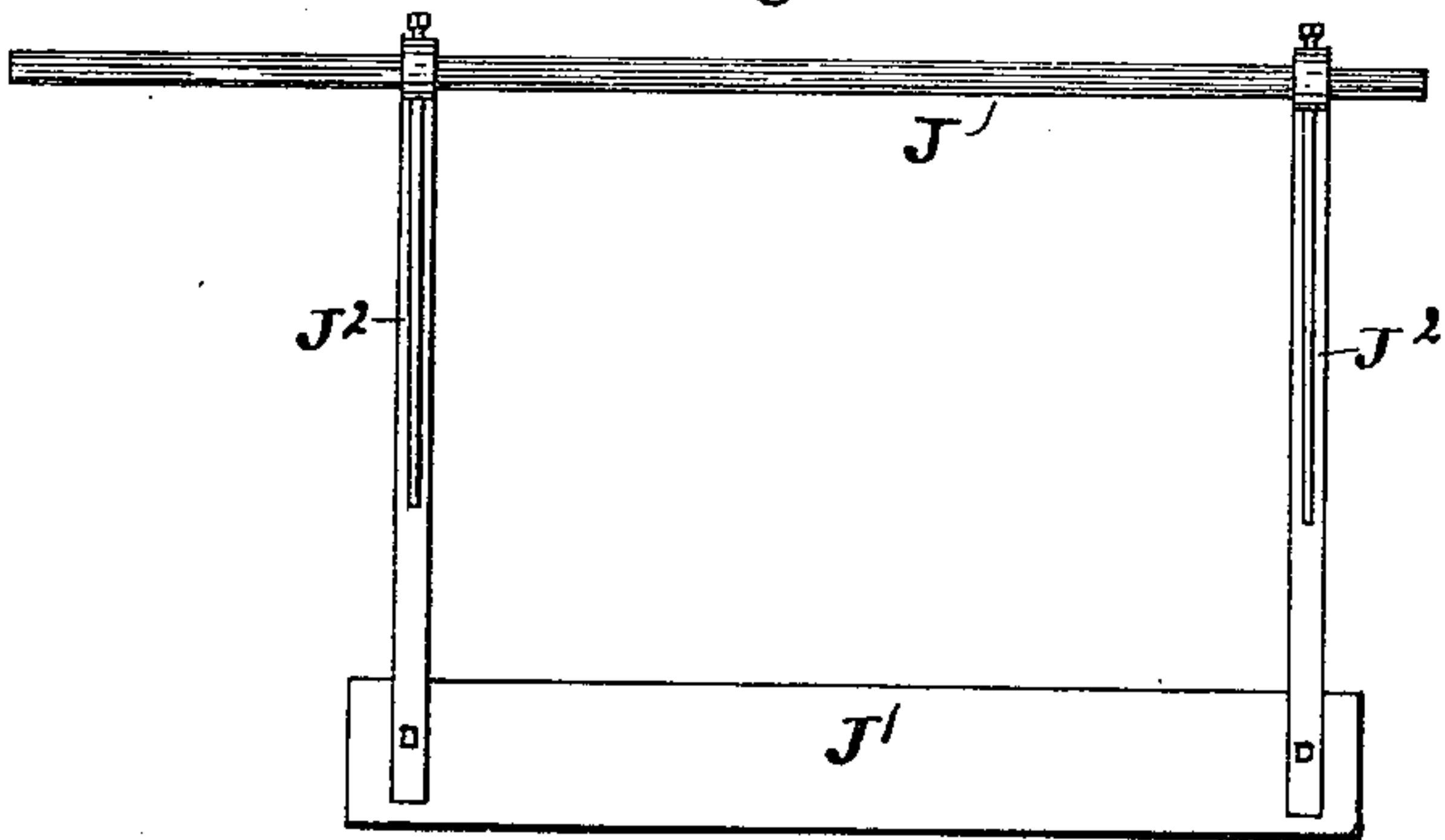
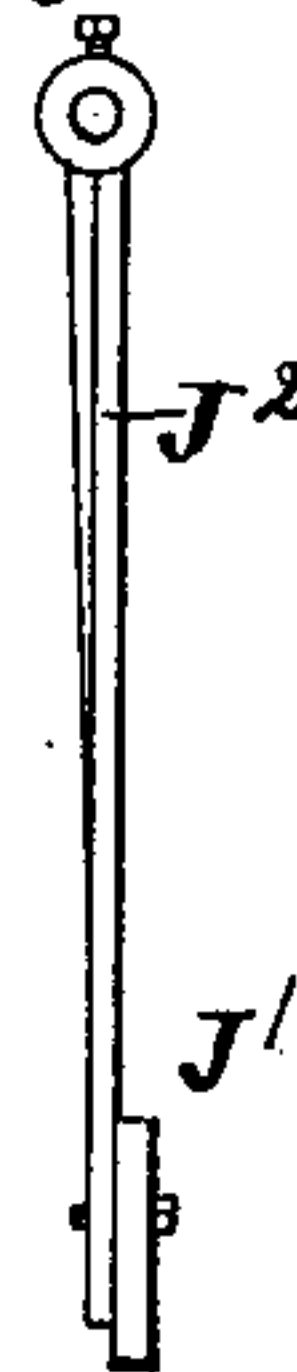


Fig. 6.



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UNITED STATES PATENT OFFICE.

JOHN DAHN, OF EAST TOLEDO, OHIO.

SPRINKLING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 332,329, dated December 15, 1885.

Application filed February 13, 1885. Serial No. 155,844. (No model.)

To all whom it may concern:

Be it known that I, JOHN DAHN, a citizen of the United States, residing at East Toledo, in the county of Lucas and State of Ohio, have invented a new and useful Sprinkling-Machine, of which the following is a specification.

My invention relates to improvements in sprinkling and liquid fertilizer-distributing machines having tanks provided with internal vibrating or oscillating stirrers.

The objects of my improvements are, first, to afford simple and effective means of operating said stirrers; second, to afford means of operating and regulating the flow or discharge from the discharge-pipe without cocks or valves; third, to afford simple means of leveling the discharge-pipe when sprinkling on sidling ground; fourth, to afford means of preventing the discharge-pipe from becoming clogged. I attain these objects by mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side view, and Fig. 2 a rear view, of my entire machine. Fig. 3 is a detail view showing a section of the tank, the discharge-pipe, connecting-hose, &c. Fig. 4 shows the discharge-pipe and perforated shell in detail section. Figs. 5 and 6 are detail views of the stirrers.

Similar letters refer to similar parts throughout the different views.

The tank B is securely held to the framework of the machine by cross-ties B' and bolts B².

The frame is bolted to the axle, and serves as a support and brace for the tongue or thills and the tank, rear wheel, &c.

The discharge-pipe P is provided with slot c, extending between and near to its ends, the object of the slot being to prevent clogging when distributing liquid fertilizing substances. The perforated shell P' is provided with rows and sectional rows of perforations, the different rows varying in size. Thus the sprinkling capacity of the machine is varied by bringing different rows of perforations in range of the discharge-slot c in pipe P. When necessary to sprinkle in rows, instead

of broadcast, a sectional row of perforations may be brought over said slot. The shell P' is securely held in any required position upon the discharge-pipe P by the clamp-collars P². The tank B is connected with the discharge-pipe P by metal nipples e² and e³, and elbows e', and rubber hose e. The swinging frame A, which is pivoted to the main frame d, holds the discharge-pipe P adjustably at its rear end, the adjustment being necessary for leveling said pipe P on sloping ground, and being facilitated in doing so by the ratchet-levers D' and links D, constructed and adapted as shown. The hand-lever f is attached to the discharge-pipe P by rope or chain n, so that by throwing the lever f forward to hook f' the discharge-pipe P, carried by the swinging frame A, is swung above the water-level in the tank, shutting off the discharge or flow from said discharge-pipe. By throwing back the lever f the swinging frame, with the discharge-pipe, is let down. Thus the discharge or flow is facilitated. The stirrers J' mix liquids, such as paris green and water for potato-vines, fertilizing materials, &c., and prevent sediment from settling at the bottom of the tank. The bars J, forming a part of the stirrer, are held in suitable bearings at the top of the tank, one end of each bearing projecting out over the transportation-wheels C, for carrying bumping-arms h, and weight-rods i', and weights i. The wrist L, provided with roller h', is clamped securely to the spokes of the transportation-wheels C, so that by each revolution of said wheels a forward or oscillating movement is imparted to the stirrers by contact of the rollers h' and arm h. When said rollers have passed the arms h, the rearward movement of the stirrers is facilitated by the weights i.

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

1. In a sprinkling-machine, the combination, with the tank B and transportation-wheels C, of the oscillating stirrers J', arms J², bars J, weight-rods i', provided with weights i, bumping-arms h, rollers h', and

roller-wrists L, substantially as shown, and for the purpose specified.

2. The combination, in a sprinkling-machine, of the slotted discharge-pipe P, connected with tank B by rubber hose e, metal elbows e', and nipples e², and provided with the perforated shell P², links D, and ratchet-levers D', with the hoisting-frame A, provid-

ed with a suitable hoisting-lever connected therewith by a rope or chain, substantially as is shown, and for the purpose specified.

JOHN DAHN.

Witnesses:

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