

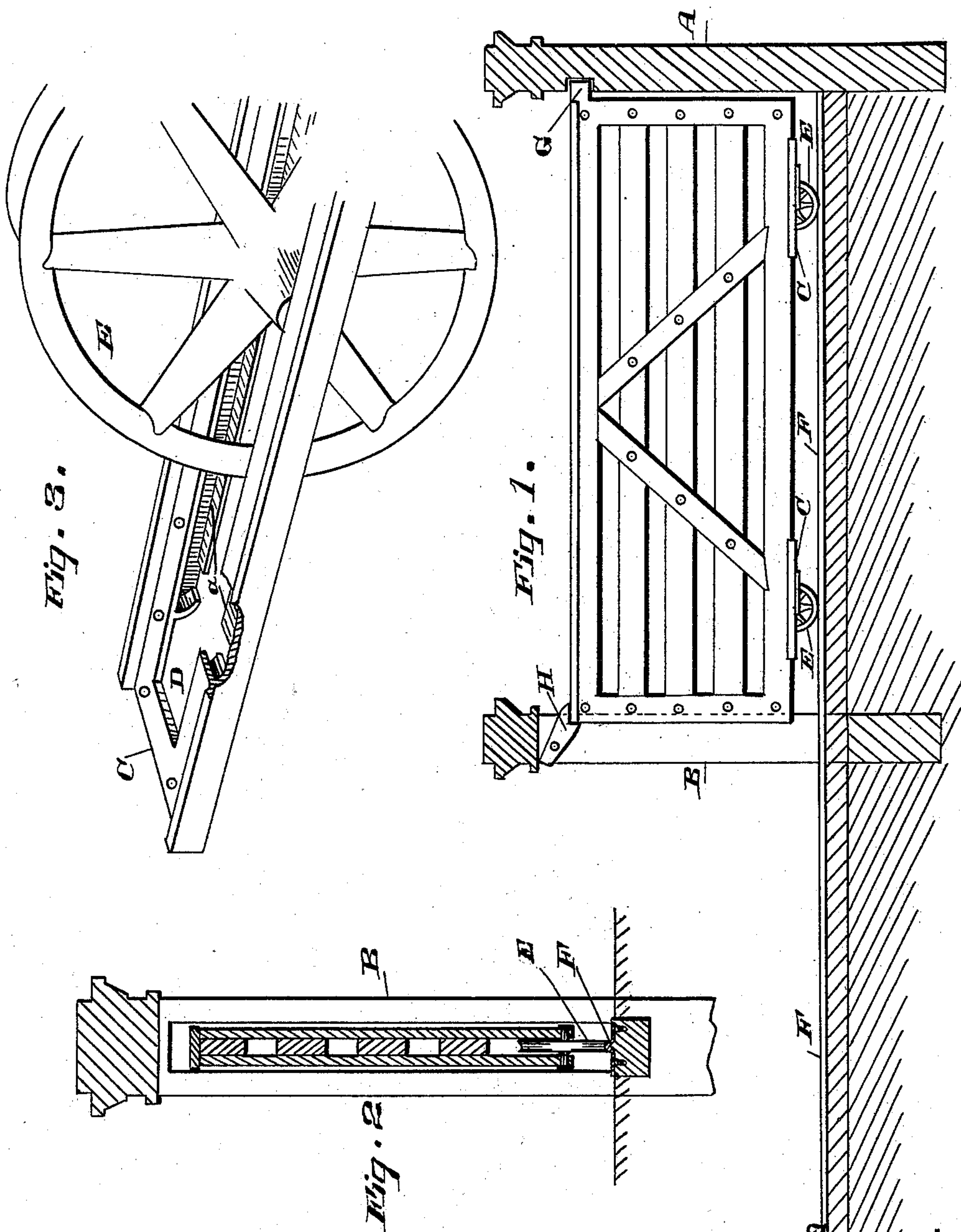
(No Model.)

J. DONNELLY.

GATE.

No. 384,136.

Patented June 5, 1888.



Witnesses,
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UNITED STATES PATENT OFFICE.

JOHN DONNELLY, OF SAN MATEO, CALIFORNIA.

GATE.

SPECIFICATION forming part of Letters Patent No. 384,136, dated June 5, 1888.

Application filed March 15, 1888. Serial No. 267,279. (No model.)

To all whom it may concern:

Be it known that I, JOHN DONNELLY, of San Mateo, San Mateo county, State of California, have invented an Improvement in Gates, of
5 which the following is a specification.

My invention relates to certain improvements in gates and wheels or pulleys, by which a sliding reciprocating gate is carried, and an elongated chamber or journal-box with guides,
10 within which the pulley-shaft travels or rolls, so as to reduce the friction to a minimum, and a means for easily removing the pulley from its box.

Referring to the accompanying drawings for
15 a more complete explanation of my invention, Figure 1 is a side elevation of the gate. Fig. 2 is an end view. Fig. 3 is a view of the journal-box of one of the pulleys.

A is a solid gate-post, against which the
20 gate closes, and B is a slotted one, through which it runs and by which it is guided and kept upright. Upon the bottom rail of the gate, near each end, is fixed a journal-box for the shafts of the pulleys, by which the gate is
25 supported. Each journal-box consists of a plate, C, secured to the bottom of the gate, in which is formed a longitudinal slot, D, having an elongated channel, *a*, upon each side of it, as shown in Fig. 3, these channels being open
30 at one end, so that the shaft or axle of the pulley may be introduced or removed through the openings.

E is a pulley or roller upon which the gate travels, and when its shaft has been introduced through the openings above described the ends may travel within the inclosed elongated slots *a* in the part D. As previously stated, there is one of these devices near each

end of the gate, and when the gate travels, these rollers running upon the track, as shown
40 at F, the axle of the roller within the channels moves from one end toward the other, the channels being long enough to allow it to roll as far as is necessary to fully open or close the gate.

At the upper end of the post against which
45 the gate closes is an opening or space, into which a projecting stop or catch, G, projects when the gate is closed, thus steadying the upper end and preventing its swinging from side to side.

H is a latch, which is pivoted into the upper part of the slotted post, so as to fall down behind the upper end of the gate and hold it closed. This latch may be lifted when it is desired to open the gate, and will then rest on
55 top of the rail, which slides beneath it.

A suitable stop or post, I, may be placed at the rear end of the traveling gate, so as to retain it at that point.
60

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

The combination, with a gate and its posts, one of which is slotted to permit the passage
65 of said gate, of the plate C, secured to the under surface of the gate, said plate having the slot D, elongated channels *a* upon each side of the slot and open at one end, and the rollers in said slot, with the ends of their axles or
70 shafts mounted loosely in said channels, substantially as described.

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Witnesses:

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