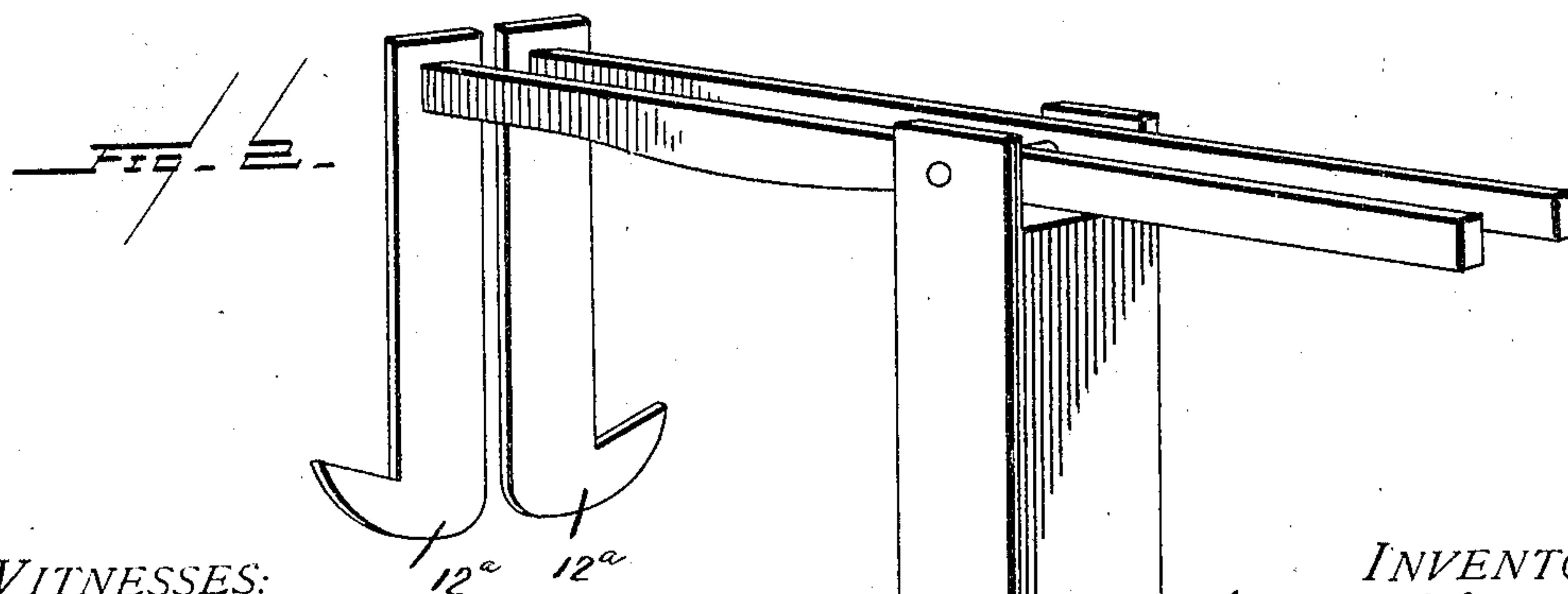
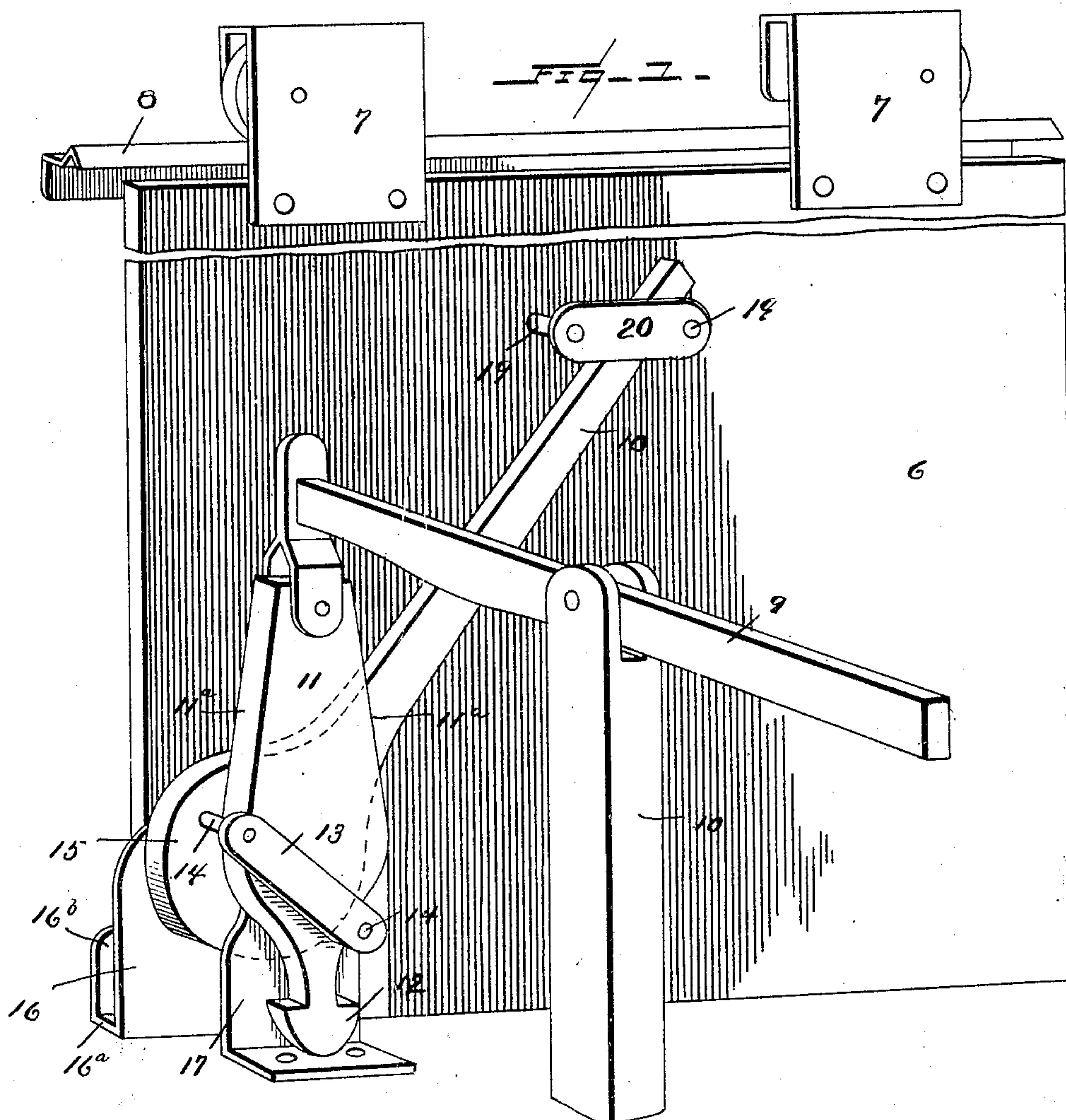


No. 804,251.

PATENTED NOV. 14, 1905.

E. T. MORRIS.
DEVICE FOR OPENING AND CLOSING DOORS OR GATES.
APPLICATION FILED APR. 20, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EDGAR T. MORRIS, OF ELBURN, ILLINOIS.

DEVICE FOR OPENING AND CLOSING DOORS OR GATES.

No. 804,251.

Specification of Letters Patent.

Patented Nov. 14, 1905.

Application filed April 20, 1905. Serial No. 256,628.

To all whom it may concern:

Be it known that I, EDGAR T. MORRIS, a citizen of the United States, residing at Elburn, in the county of Kane and State of Illinois, have invented new and useful Improvements in Devices for Opening and Closing Doors or Gates, of which the following is a specification.

This invention is a device for opening and closing sliding doors or gates, and has for its object to produce an improved device of the kind which may be operated at a distance from the door—as, for example, by a person in a carriage or wagon.

In the accompanying drawings, wherein the invention is illustrated, Figure 1 is a perspective view. Fig. 2 is a perspective detail of a modification.

Referring specifically to the drawings, 6 indicates a sliding door carried by hangers 7, which roll on a track 8. Extending perpendicularly to the door is a lever 9, pivoted to swing vertically in the top of the post 10. At the end nearest the door the lever is connected to a hook-block 11, which has at the lower end oppositely-presented hooks 12. This block works under a strap 13, connected by bolts 14 at each end to a turning block 15, which turns on a central pivot held by brackets 16 and 17. The block 15 has an arm 18, which projects up beside the door and between two bolts 19, projecting from the side of the door. A plate 20 connects the bolts and keeps the arm in place. The bracket 16 is preferably located to form a guide for the bottom of the door, having a bottom portion 16^a, over which the door slides, and an upturned portion 16^b at the back, which is fastened to the wall of the building.

The opening or closing of the door is effected by rocking the block 15. The pins 14 are so located that one of them will be engaged by one of the hooks 12 when the hook-block is lifted, and this engagement turns the block 15 and swings the arm 18, which carries with it the door, to open or close the same, the hook-block 11 being lifted by the pressure on the outer end of the lever 9.

In the modification shown in Fig. 2 two separate hooks 12^a are used, each of which is operated by a lever 9^a, the other parts being the same. One hook catches the pin 14 on one side, and the other hook catches the pin on the other side, and it swings the arm accordingly to either open or close the door.

The side edges 11^a of the hook-block 11 are so shaped that by contact with the upper pin 14 the block is shoved over, so that the hook on the opposite side will go to the other pin.

What I claim as new, and desire to secure by Letters Patent, is—

1. An opener for sliding doors or gates, comprising a rocker having a projecting arm connected to the door or gate and a pair of projecting pins on opposite sides of its pivot, a hook-block having hooks on opposite sides thereof, working between the pins and arranged to engage one or the other, and a lever connected to said block, to lift the same.

2. An opener for sliding doors or gates comprising a rocker having an upwardly-projecting arm connected to the door or gate, and a laterally-extending pin, and a lever having a hook arranged to engage the pin and turn the rocker.

3. An opener for sliding doors or gates comprising a pivoted rocker having an upwardly-extending arm loosely connected to the door or gate, and also having a pair of pins projecting on opposite sides of the pivot, a block movable up and down between the pins and opposite hooks at its lower end and cam edges between the pins adapted to swing the block to one side or the other by contact with the pins, and an operating-lever connected to the block.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EDGAR T. MORRIS.

Witnesses:

SIGNA FELTSKOG,
H. G. BATCHELOR.