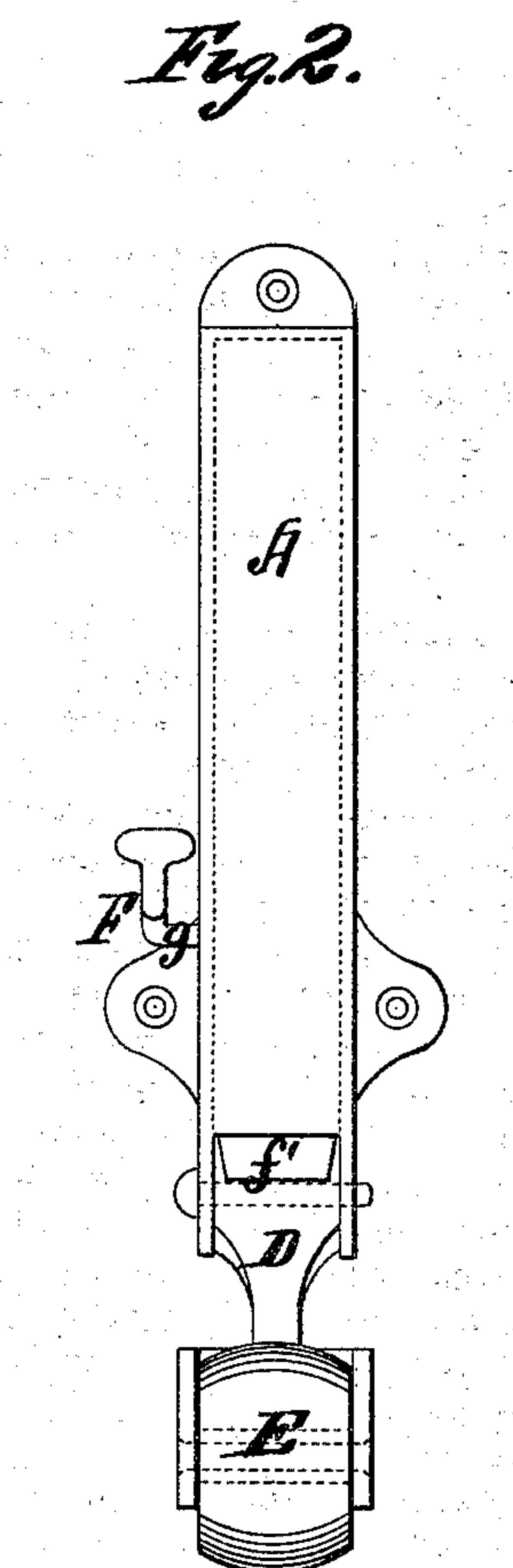
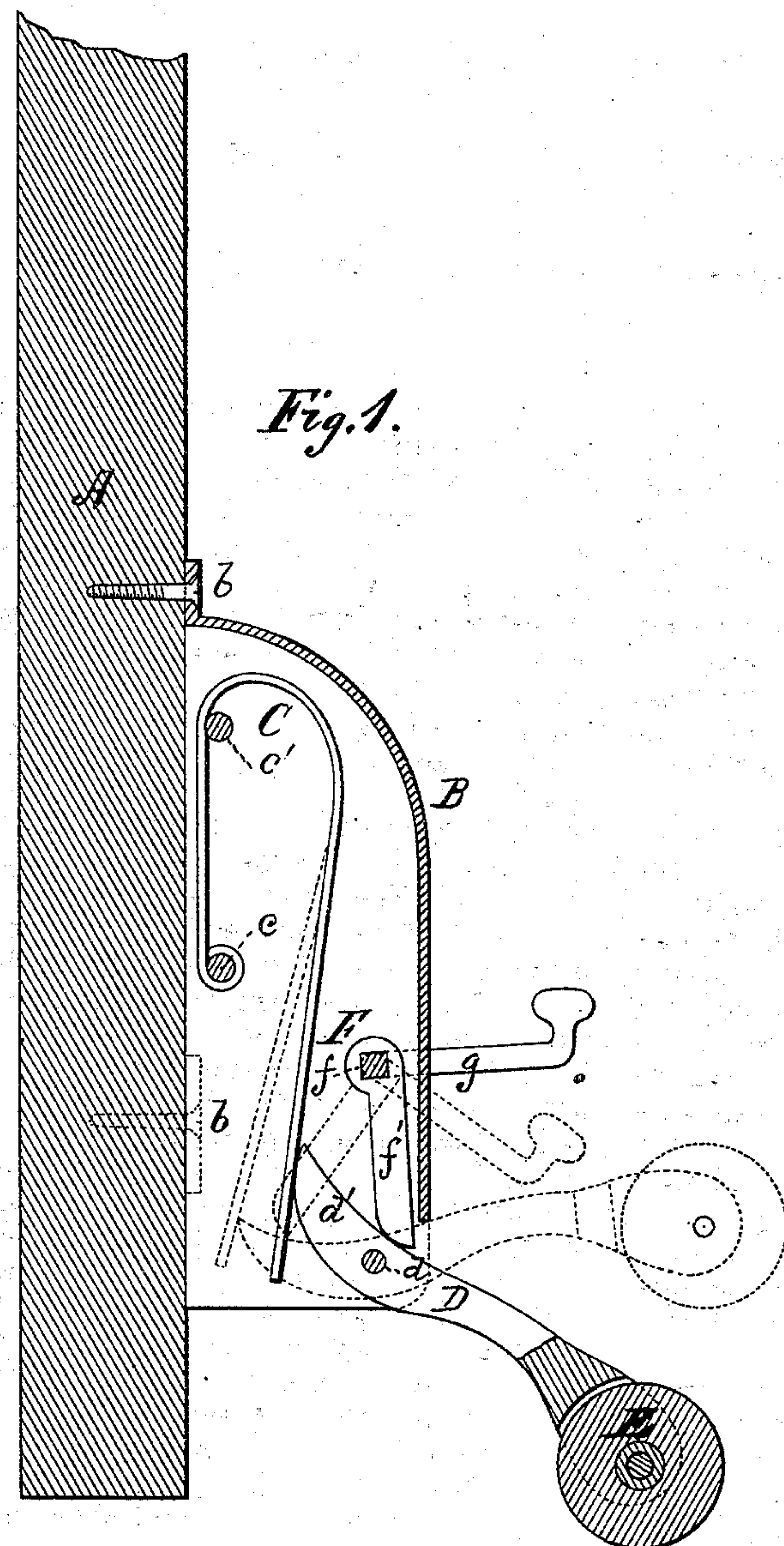


O. C. PLUMMER.
Combined Door-Checks and Buffers.

No. 154,080.

Patented Aug. 11, 1874.



WITNESSES

Villette Anderson
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UNITED STATES PATENT OFFICE.

OLIVER C. PLUMMER, OF FOREST CITY, MISSOURI.

IMPROVEMENT IN COMBINED DOOR CHECKS AND BUFFERS.

Specification forming part of Letters Patent No. **154,080**, dated August 11, 1874; application filed July 18, 1874.

To all whom it may concern:

Be it known that I, OLIVER C. PLUMMER, of Forest City, in the county of Holt and State of Missouri, have invented a new and valuable Improvement in Door Check and Buffer; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a sectional view of my door check and buffer. Figure 2 is a front view of the same.

This invention has relation to door-checks, by means of which doors are prevented from being violently slammed to by the wind; and the novelty consists in a pivoted lever having upon one end an elastic anti-friction wheel, the said lever being actuated by a spring to cause the wheel to bear forcibly against the floor of a room and prevent slamming; and operated by a lever, for the purpose of causing it to assume a horizontal position, when it will serve as a buffer, to prevent the door knob and keys from defacing the wall, all as will be hereinafter more fully explained.

In the annexed drawings, A designates a door to which is rigidly secured, by means of screws *b*, a casing, B, of my improved door-check. C designates a suitable mainspring, which is secured to the sides of the casing B by being bent around a brace-rod, *c*, and is stayed by a second brace-rod, *c'*, above the first. It is then bent around and extended downward nearly to the bottom of the casing, where it becomes engaged with the pivoted lever D, having its fulcrum upon a brace-bar, *d*, connecting the two sides of the said casing. The inner end of this lever, at the point where it is borne upon by the said spring, is rounded, as shown in Fig. 1, and the inner arm *d'* thereof is of such length that it shall cause the spring C to be greatly compressed. Its reaction will hence cause the lower end, upon which an

elastic anti-friction roller, E, is arranged, to be forcibly depressed, forcing the said roller against the floor of the room and preventing the door from being ever violently slammed to, as no pressure of wind upon the said door can cause it to yield otherwise than slowly, owing to the friction of the wheel upon the floor produced by the said spring. F designates an angular lever applied within the casing, and having its fulcrum upon a bar, *f*, connecting the two side plates thereof. The weight-arm *f'* of this lever extends downward to the upper curved surface of the lever D, and its end is likewise rounding, as is shown in Fig. 1. The power end *g* thereof extends outwardly from the weight-arm thereof, and is rigidly secured thereto in any suitable manner. If the power arm *g'* of this lever be now thrust down to the position shown in dotted lines in Fig. 1 the rounded end of the weight-arm of the said lever will be forcibly pressed against the lever, depressing its inner end and raising its outer end bearing the roller from the floor, causing the roller to assume a position indicated in dotted lines of the same figure, whereby it will prevent the door knob and key from defacing the wall when the door is widely opened and swung back against it. If the lever be released from the coercion of the angular lever the spring will cause it, by its reflection, to be forced back into its original position for checking the door.

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

In a combined door check and buffer, the combination, with the vibrating lever D having an elastic anti-friction roller, E, of the mainspring C and angular lever F, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

OLIVER C. PLUMMER.

Witnesses:

IRA J. REEME,
ORVEL GRAVES.