

(No Model.)

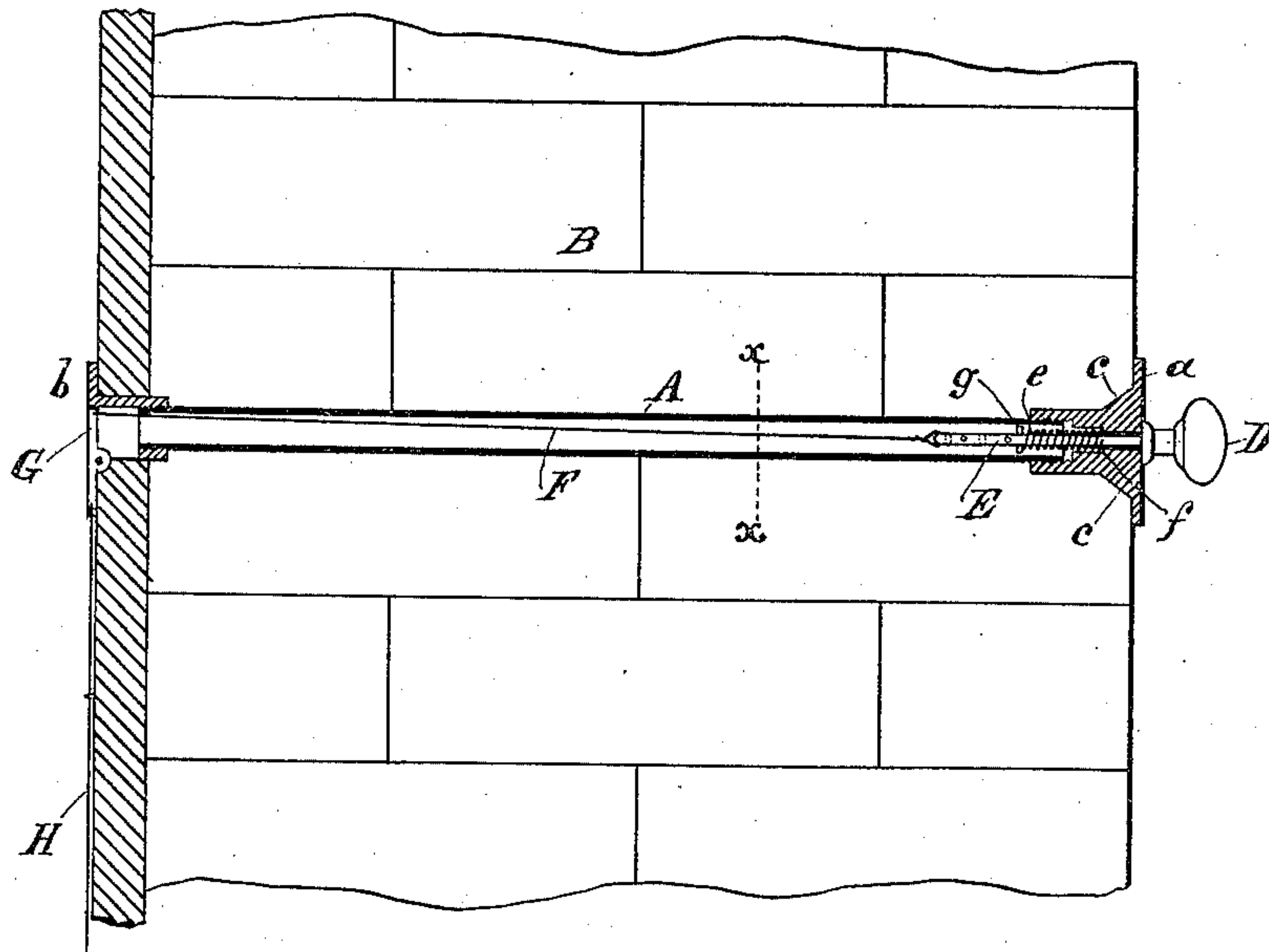
J. B. BOYLE.

BELL PULL.

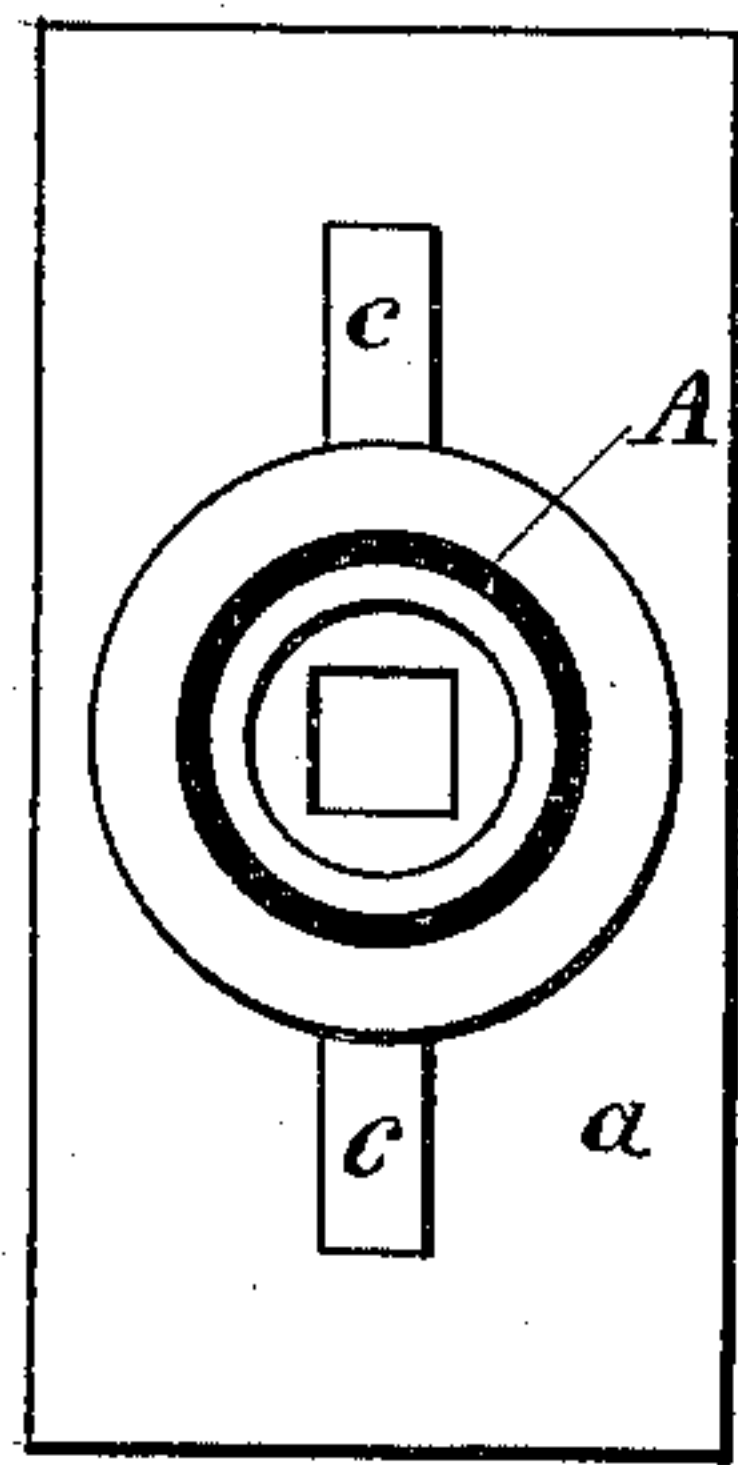
No. 285,961.

Patented Oct. 2, 1883.

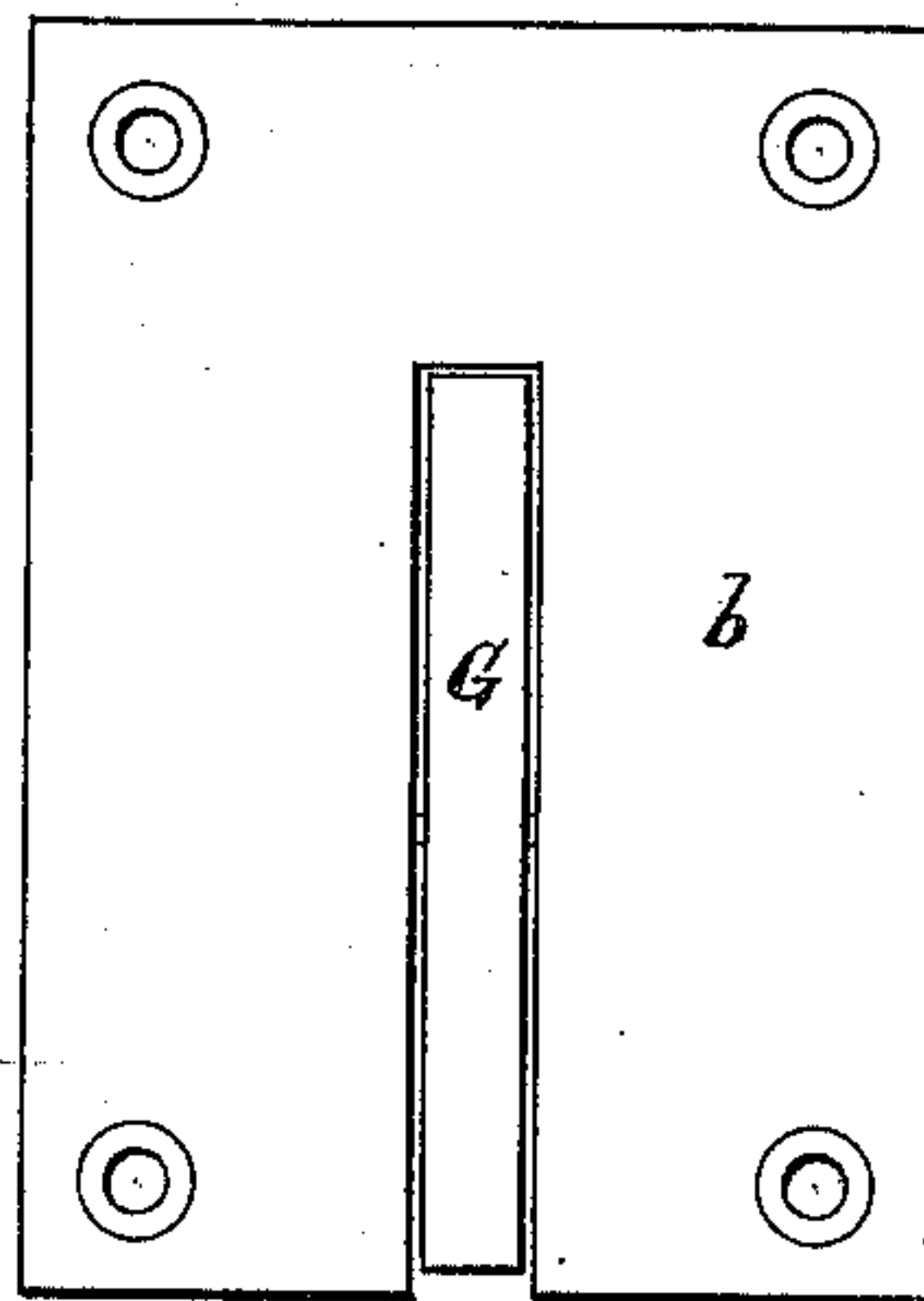
- FIG I -



- FIG II -



- FIG III -



- WITNESSES -

X Dani. Fisher
Remond Reese

- INVENTOR -

John B. Boyle,
by G. H. H. Howard,
att'y.

UNITED STATES PATENT OFFICE.

JOHN B. BOYLE, OF BALTIMORE, MARYLAND.

BELL-PULL.

SPECIFICATION forming part of Letters Patent No. 285,961, dated October 2, 1883.

Application filed July 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN B. BOYLE, of the city of Baltimore and State of Maryland, have invented certain Improvements in Bell-Pulls, 5 of which the following is a specification.

The object of this invention is the construction of a bell-pull which may be easily and firmly secured to a wall, and to obviate the necessity of using a wooden plug at the outer surface of the wall as a means for forming the connection between the same and the bell-pull. 10

In the accompanying drawings, forming a part hereof, Figure I is a longitudinal section 15 of the invention, showing the same secured in a wall. Fig. II is a cross-section of the invention, taken on the dotted line *x x*, Fig. I, shown enlarged. Fig. III is a rear view of the invention, also enlarged.

20 Similar letters of reference indicate similar parts in all the views.

A is a pipe threaded at its ends, and secured in the wall B by means of the plates *a* and *b*, into the hubs of which it is screwed. The 25 plate *a* has wings *c*, which are embedded in the brick-work to prevent its turning. The plate *b*, which is devoid of wings, is screwed on the pipe until its under side is drawn closely in contact with the inner door-frame, and the 30 pipe A firmly locked.

D is the knob, and E the stem of the bell-pull, to which the wire F is fastened. The wire F is also attached to the upper end of a lever, G, pivoted in the plate *b* at *d*, and the 35 lower end of the lever G is secured to the

wire H, which extends through the house to the bell. A spring, *e*, on the stem E is confined endwise between the shoulder *f* in the plate *a* and a pin, *g*, which passes through the stem; and to limit longitudinal movement 4 of the knob and stem and prevent undue strain being placed on the wires, a second shoulder, *h*, is formed in the plate *a*, against which the pin *g* strikes.

When my improved bell-pull is to be applied to a house in course of erection, the pipe 4 A is built in the wall, or a hole suitable for the reception of the pipe is formed in the wall by building around a plug slightly larger than the pipe, and then withdrawing it.

From the foregoing description it will be 5 seen that the bell-pull is securely fastened to the wall, and cannot be removed therefrom except by first unscrewing the plate *b*, and that no undue strain can be placed upon the 5 wires to break them.

I claim as my invention—

In a bell-pull, the combination of a pipe extending through the wall, with a plate secured at each end to prevent its removal, a knob 60 having a stem with a coiled spring around it, a pin to limit the movement of the stem, a lever pivoted to the inner securing-plate, and a wire to connect the stem and the said lever, substantially as specified.

JNO. B. BOYLE.

Witnesses:

EDW. J. DIGGS,
JOHN WILLIAMS.