

C. GERHARDT & G. S. LANDER.

Improvement in Alarm Door Bells.

No. 125,731.

Patented April 16, 1872.

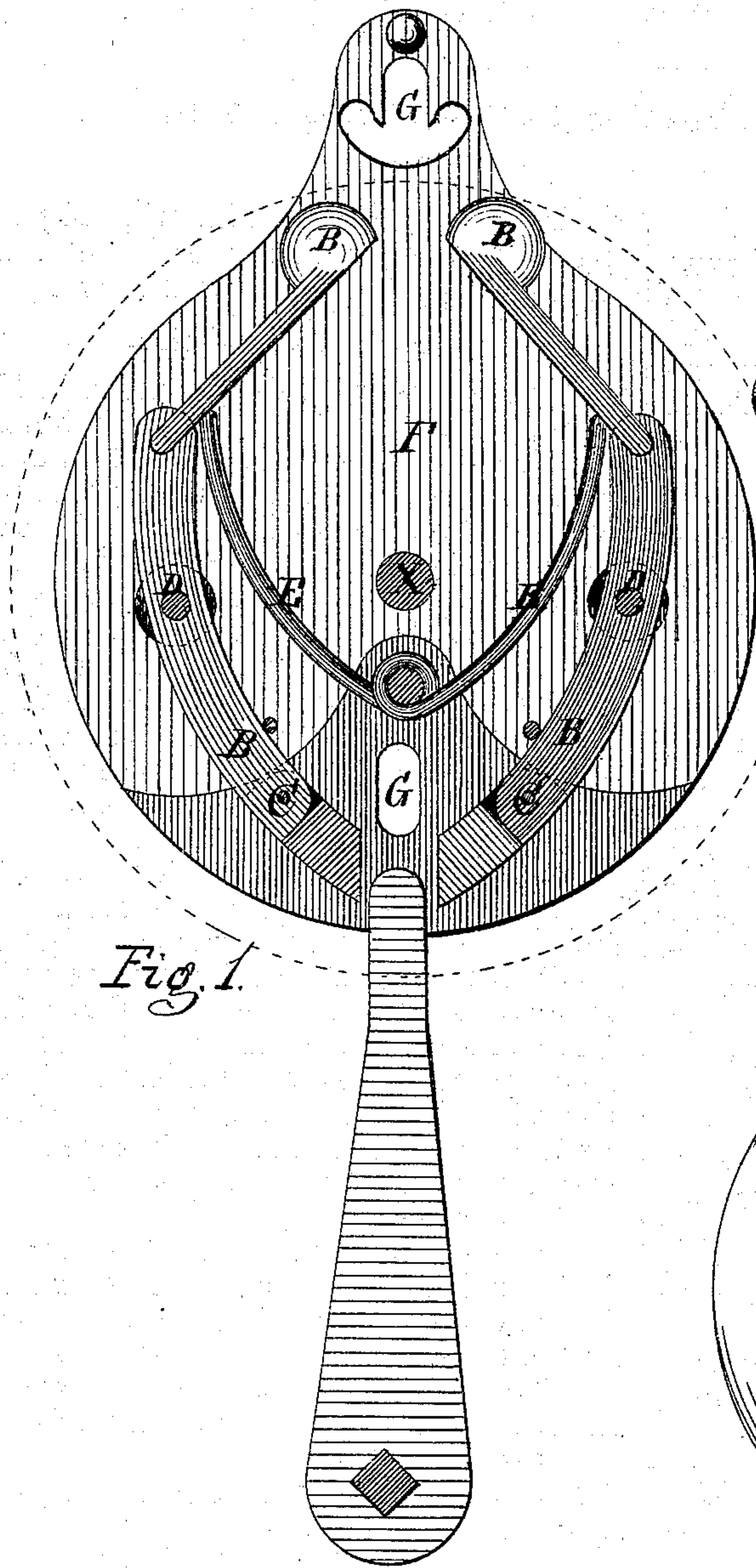


Fig. 1.

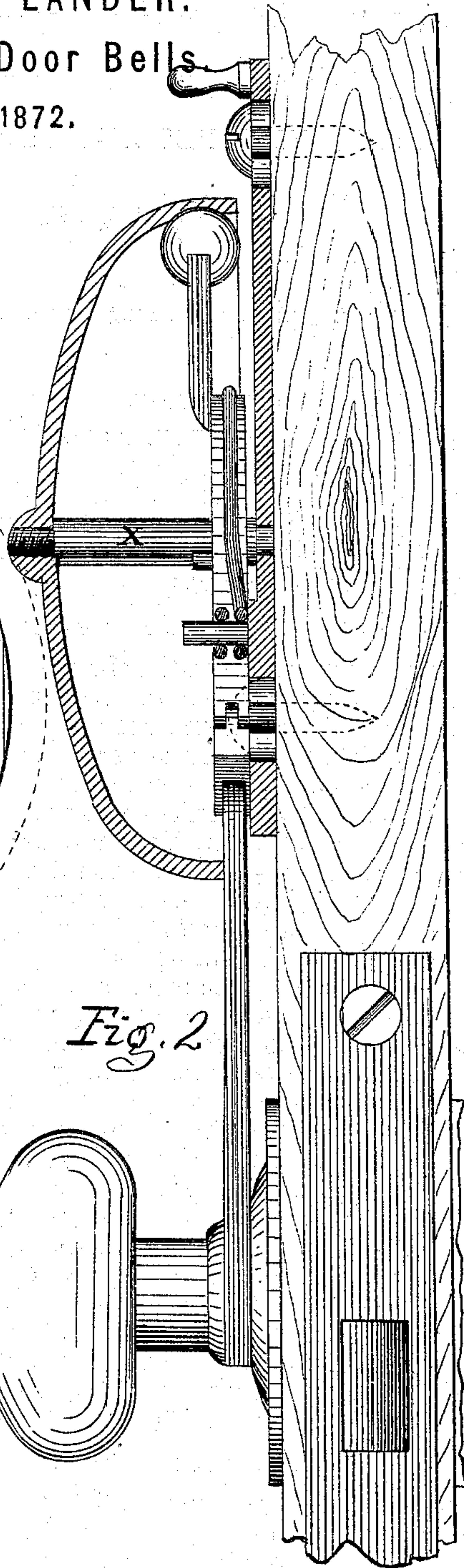


Fig. 2.



Fig. 3.



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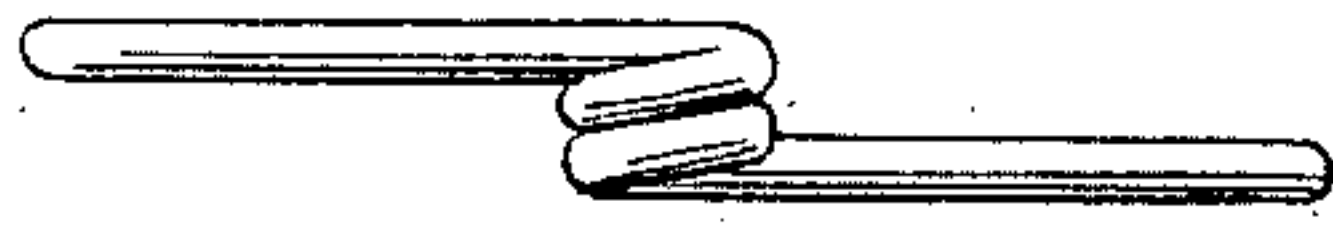


Fig. 4



# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN ALARM DOOR-BELLS.

Specification forming part of Letters Patent No. 125,731, dated April 16, 1872.

### SPECIFICATION.

We, CHARLES C. GERHARDT and GILBERT S. LANDER, of the city of Wyandotte, in the county of Wyandotte and State of Kansas, have invented certain Improvements in a Combined Door-Lock and Alarm-Bell, of which the following is a specification:

#### *Nature and Object of the Invention.*

Our invention relates to the class of devices of this character in which the mechanism of the alarm-bell is connected with the spindle of the door-lock in such a manner that in turning the door-knob the bell will be rung. Our improvement consists in the employment of a rigid arm fixed on the spindle of the door-lock, in combination with the lever-arms of the hammers of the bell, the lever-arms terminating in shortends pivoted thereto by knuckle-joints. The arm on the lock-spindle enters the space between these pivoted ends on the lever-arms, of the hammers, and in turning it, after operating upon one of the said ends and lever-arms which are prevented from turning on each other in this direction, it escapes from between such ends, permitting the hammer to be returned by the reaction of a spring, so as to strike the bell. In returning to its normal position the arm on the lock-spindle turns the pivoted end on the lever-arm of the hammer until it passes it, when said end swings back by its own gravity. Our improvement further consists in so arranging the bell-holding plate that it may be adjusted vertically to connect or disconnect the lever-arms of its hammers and the arm on the lock-spindle.

#### *Description of the Accompanying Drawing.*

Figure 1 is an inside view of the bell with the attachment, showing the different parts in position and in working order. Fig. 2 is a side view as attached to the door and lock. Fig. 3 is a view of a section of the hammer, showing the joint by means of which the le-

ver is allowed to assume its original position after the knob is turned and the door re-latched. Fig. 4 is a view of the spring.

#### *General Description.*

A is the lever whereby the alarm-bell is attached to the door-knob, and with which the hammers are sprung and the bell rung. B B are the hammers. C C are the joints whereby the sections below are allowed to turn in to enable the lever to assume its former position after the door is latched. D D are pivots upon which the hammers turn. E E is the spring. X is the post by which the bell is fastened to the bell-plate F. G G are the slots cut in the bell-plate to allow the plate and bell to be shoved up and detached from the lever connected with the door-knob when it is desired to so detach the same.

The bell-holding plate is not clamped tightly to the door by the screws passing through the slots G G, but may be slid upon the screws to adjust it vertically. The upper slot G has branches near its lower end, as shown in Fig. 1, to admit the screw for the purpose of suspending the bell at a sufficient elevation to disconnect its mechanism from the arm A of the lock-spindle, so that the door-lock may be operated without affecting the bell.

We claim as our invention—

1. The combination of the fixed arm A on the door-lock spindle and the lever-arms of the hammers of the bell, terminating in pivoted ends C, substantially as specified.

2. The combination of the fixed arm A on the door-lock spindle and the herein-described bell, capable of adjustment in the direction of the arm, substantially as and for the purposes specified.

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Witnesses:

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