

C. GERHARDT & G. S. LANDER.

Improvement in Alarm Door Bells

No. 125,731.

Patented April 16, 1872.

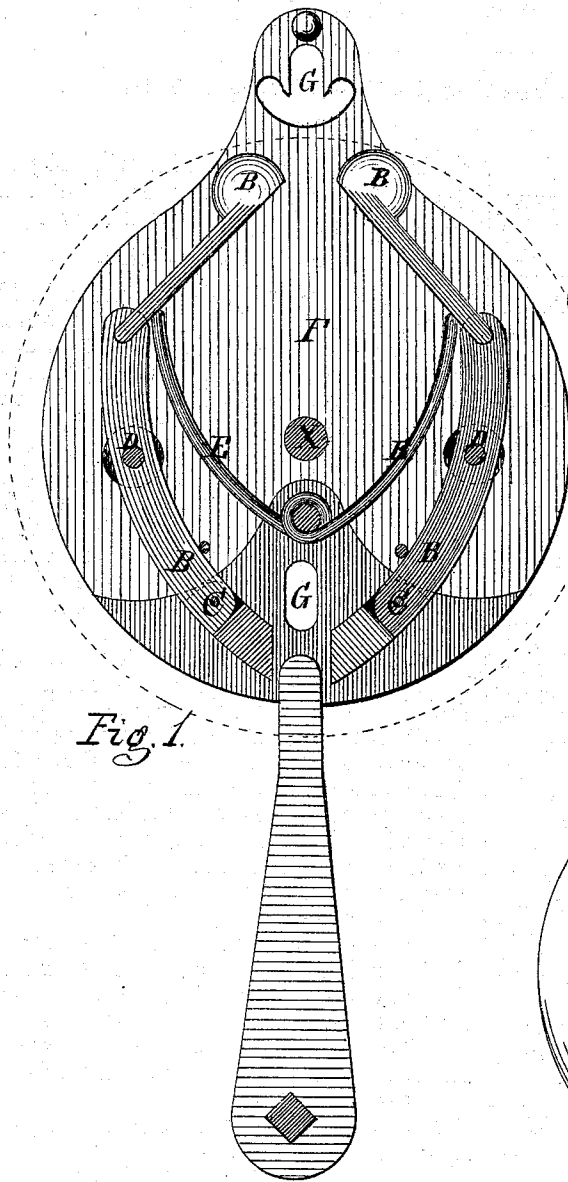


Fig. 1

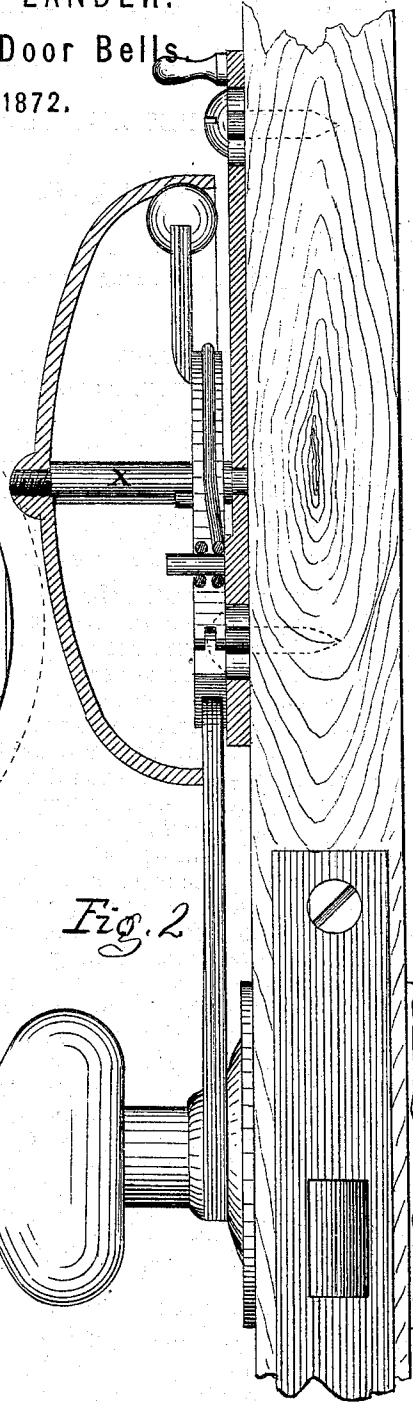


Fig. 2

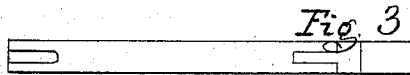


Fig. 3



Fig. 4

Attest
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UNITED STATES PATENT OFFICE.

CHARLES C. GERHARDT AND GILBERT S. LANDER, OF WYANDOTTE, KANSAS.

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 short ends 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 relatched. 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.

CHARLES C. GERHARDT.
GILBERT S. LANDER.

Witnesses:

E. S. W. DWIGHT,
H. L. ALDEN.