

United States Patent Office.

WILLIAM ALLPORT, OF NEW BRITAIN, CONNECTICUT.

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IMPROVEMENT IN DOOR-BELLS

The Schedule referred to in these Letters Patent and making part of the same

I, WILLIAM ALLPORT, of New Britain, in the county of Hartford and State of Connecticut, have invented a new and useful Improvement in House or Door-Bells, of which the following is a specification.

My invention is principally designed for that class of bells to be attached to any part of the house and pulled by a wire, but it may be applied directly to a door.

The invention consists in the peculiar arrangement of the parts, as hereafter described.

In the accompanying drawings—

Figure 1 is a front elevation of my invention, with the bell removed; and

Figure 2 is a front elevation of the bell.

A designates the plate by which the device is secured in position for use, and to which the mechanism is attached.

B is a central post, to which the bell C is secured.

D designates the hammer attached to a wire spring shaft, *a*, which is formed into nearly right angles E, immediately below the swinging arms *b b'* *c* and the trip *d*.

The shaft *a* is also coiled after the usual manner of forming wire springs, and its end secured to the stud *e* in any proper manner.

The arms *b b'* *c* and the trip *d* swing on the pivot *f*, while the trip *d* has a certain degree of play between the arms *b b'*.

The spiral spring *g* is attached to pins or hooks *h h*, one of which is secured to the plate A and the other to the arm *b*, which brings the arm *c* up against the stud *i*.

By pulling the wire *j* to the right, the trip *d* depresses the hammer-shaft *a* until it has passed the corner of its angular bend E, when the trip will swing to the left sufficiently to allow the spring-shaft *a* and hammer D to spring up, strike the bell C, and resume their former position. The spring *g* then brings the arms *b b'* *c* and trip *d* to their former position, while in doing so the trip will operate the hammer-shaft *a*, as before.

If, in securing the bell in place for use it should be desirable to have it operated by a pull from the left, the spiral spring *g* can be slipped off from the hooks *h h*, and attached to the hooks *k k*, which will cause the arms to stop, with the arm *b* in contact with the stud *i*, when a pull from the left will operate the mechanism, as before described.

I claim as my invention—

1. The combination of the hammer D, angular or V-shaped bend E in the hammer-shaft *a*, oscillating trip *d*, the swinging arm or lever *c*, for operating said trip, and the bell C, all combined and operating together; substantially as described.

2. The combination of the arms *b b'* placed opposite each other, the spring *g*, hooks *h h* and *k k*, with a bell and striking mechanism, for the purpose of changing from right to left hand, substantially as described.

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Witnesses:

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