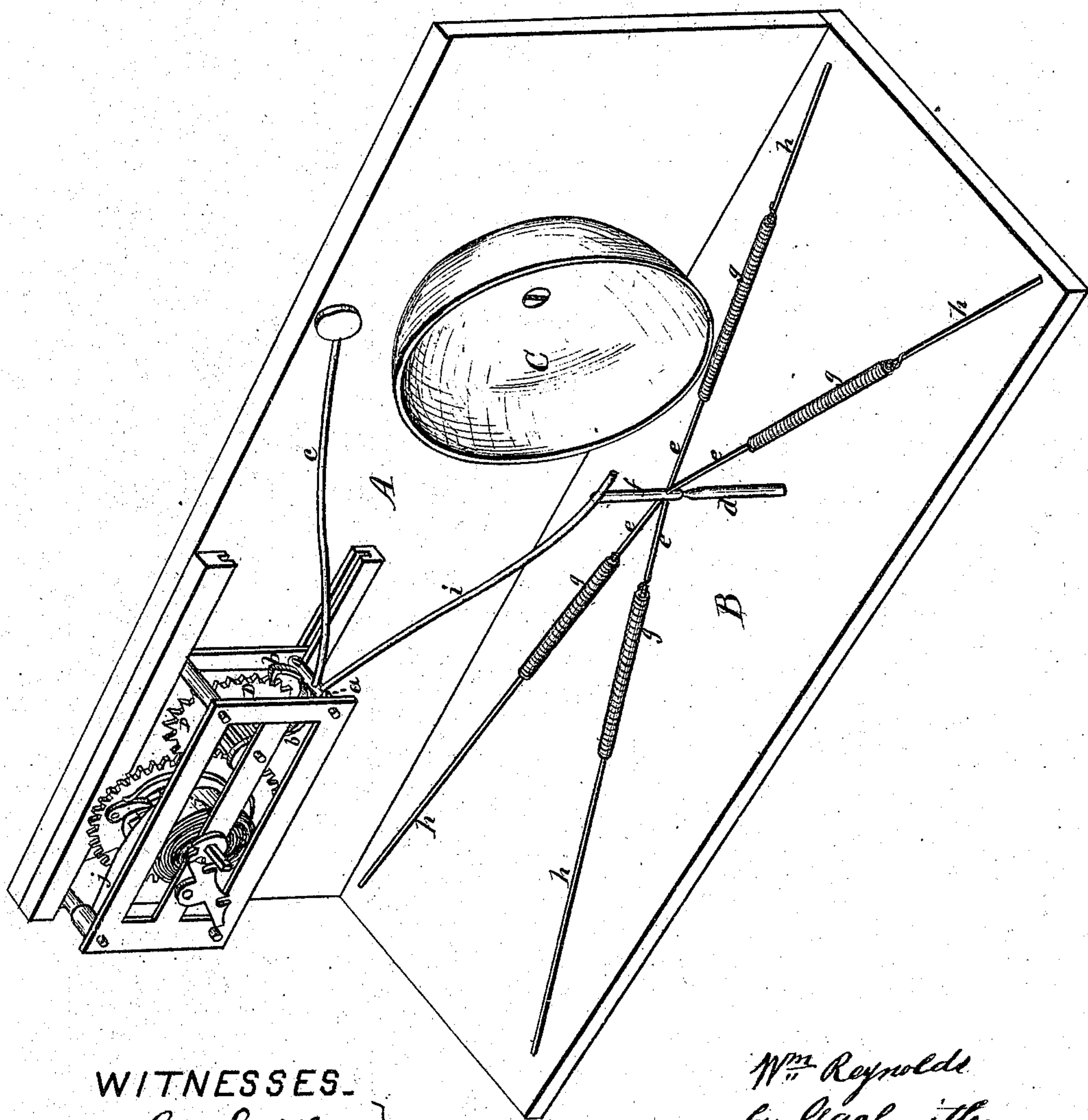


W. REYNOLDS.

Burglar Alarm.

No. 105,369.

Patented July 12, 1870.



WITNESSES.

E. Smith.
A. Byas.

W^m Reynolds
by Gasfirth
his Atty.

United States Patent Office.

WILLIAM REYNOLDS, OF MANCHESTER, NEW HAMPSHIRE.

Letters Patent No. 105,369, dated July 12, 1870.

IMPROVEMENT IN BURGLAR-ALARMS.

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

I, WILLIAM REYNOLDS, of Manchester, in the county of Hillsborough and State of New Hampshire, have invented certain Improvements in Burglar-Alarms, of which the following is a specification.

My invention relates to alarms to be used in houses, for the purpose of giving an alarm should the house be entered by burglars through the doors or windows to which the alarm is connected.

The nature of my invention consists in the construction and arrangement of the devices for springing the alarm for the above-mentioned purpose, as will be hereinafter fully explained.

In the accompanying drawing, which is a perspective-view—

A B represent the two flat pieces, fastened together at right angles to each other, to which the various parts of the alarm are attached.

To the piece A is secured a frame, in which is located the ordinary gearing used in alarm-clocks, with a flat coiled spring, &c.

The gong or bell C is also secured to the piece A.

In the frame in which the gearing is placed is a shaft, *a*, on one side of which is a curved ratchet, *b*, its ends being turned inward, and which engage the teeth of the ratchet-wheel D.

e represents an arm, which extends out from the shaft *a*, with a ball on its outer end, which, when the alarm is wound up and set, is held up above the gong or bell.

Secured to the piece B is a post or rod, *d*, the upper end of which is pointed.

e e e e are wires or cords, one end of each being attached to the short rod *f*, and their other ends to spiral springs or their equivalents, *g g g g*, and to the other ends of these springs are attached wires or cords

h h h h, the other ends of which are attached to the doors or windows in the lower portion of the house.

Attached to the shaft *a* is a rod or arm, *i*, which extends out over the post or rod *d*.

Its operation is as follows:

The outer ends of the cords *h* are attached to the doors or windows, and the lower end of the rod *f* is placed on the upper end of the post or rod *d*, with outer end of the rod *i* resting on its upper end, as shown in the drawing.

When the rod *i* is in this position, the upper end of the ratchet *b* holds the ratchet-wheel D and its connecting parts stationary, the ball on the outer end of the arm *c* being raised above the gong or bell C.

When one of the cords *h* is pulled by the opening of a door or window, or from any cause, it displaces the rod *f* from off the post or rod *d* and from under the arm *i*, which releases the upper end of the curved ratchet *b* from the ratchet-wheel D, which is now caused to revolve by means of the spring *j*, and the teeth of the ratchet-wheel, striking the ends of the ratchet *b*, give a rapid vibratory motion to the arm *c* and the ball which strikes the gong or bell, thus sounding an alarm.

Having thus fully described my invention,

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

The combination and arrangement of the post *d*, detached rod *f*, springs *g*, or their equivalents, and arm or rod *i*, with its operative parts, when constructed and operating substantially as shown and described.

WILLIAM REYNOLDS.

Witnesses:

CHARLES DAVIS,
DAVID P. NORRIS.