

A. TURNBULL.

House Bell.

No. 55,558.

Patented June 12, 1866.

Fig. 1.

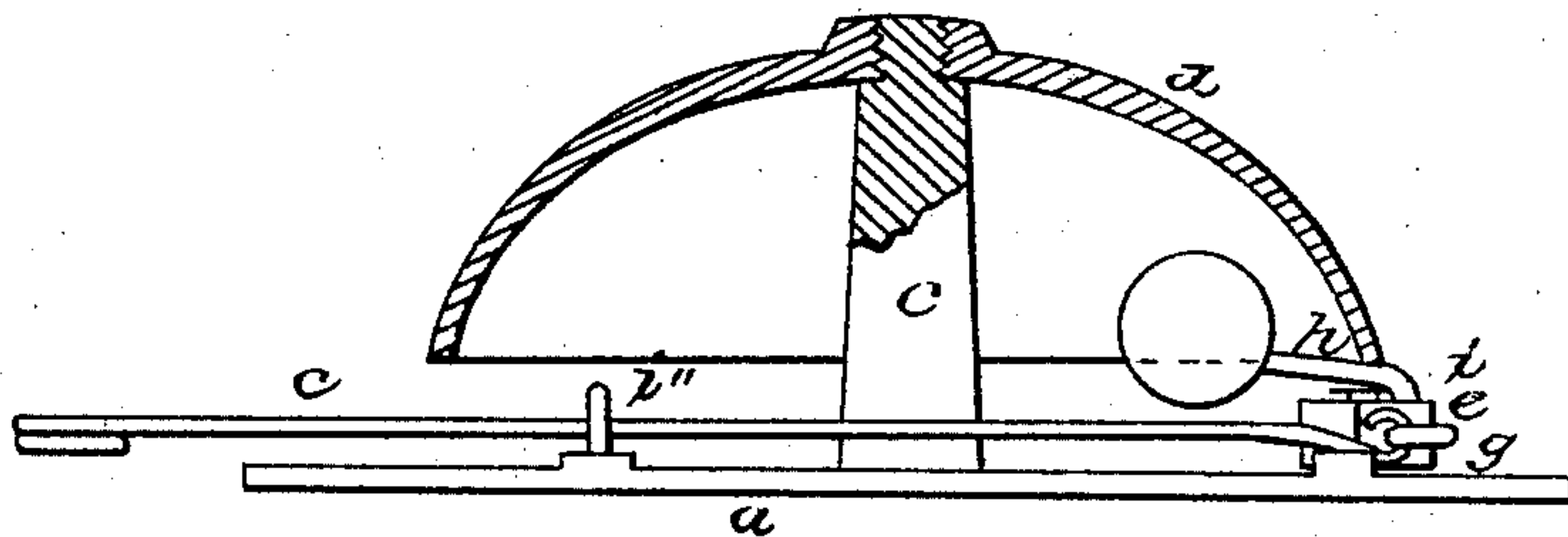


Fig. 2.

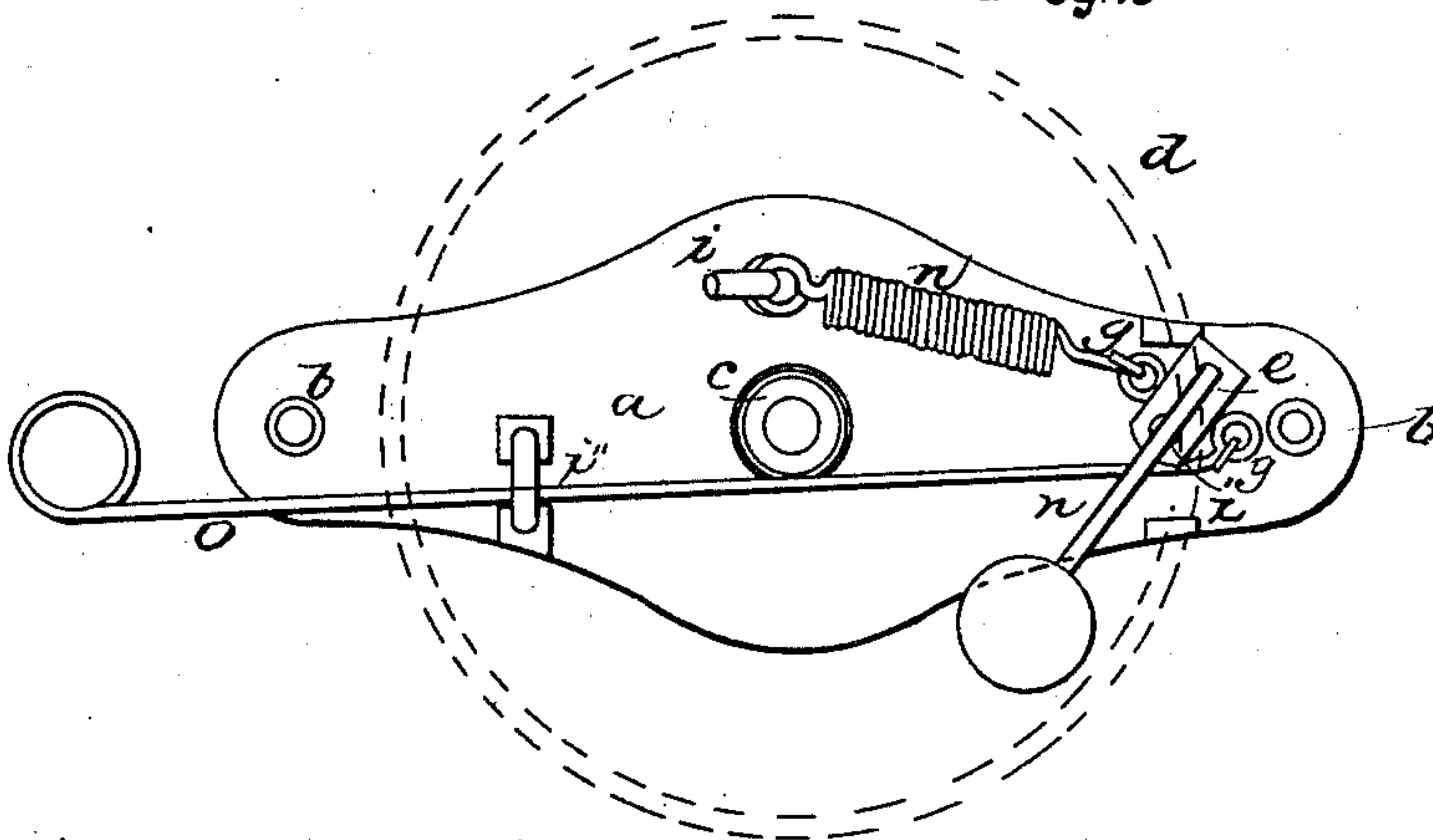


Fig. 3.

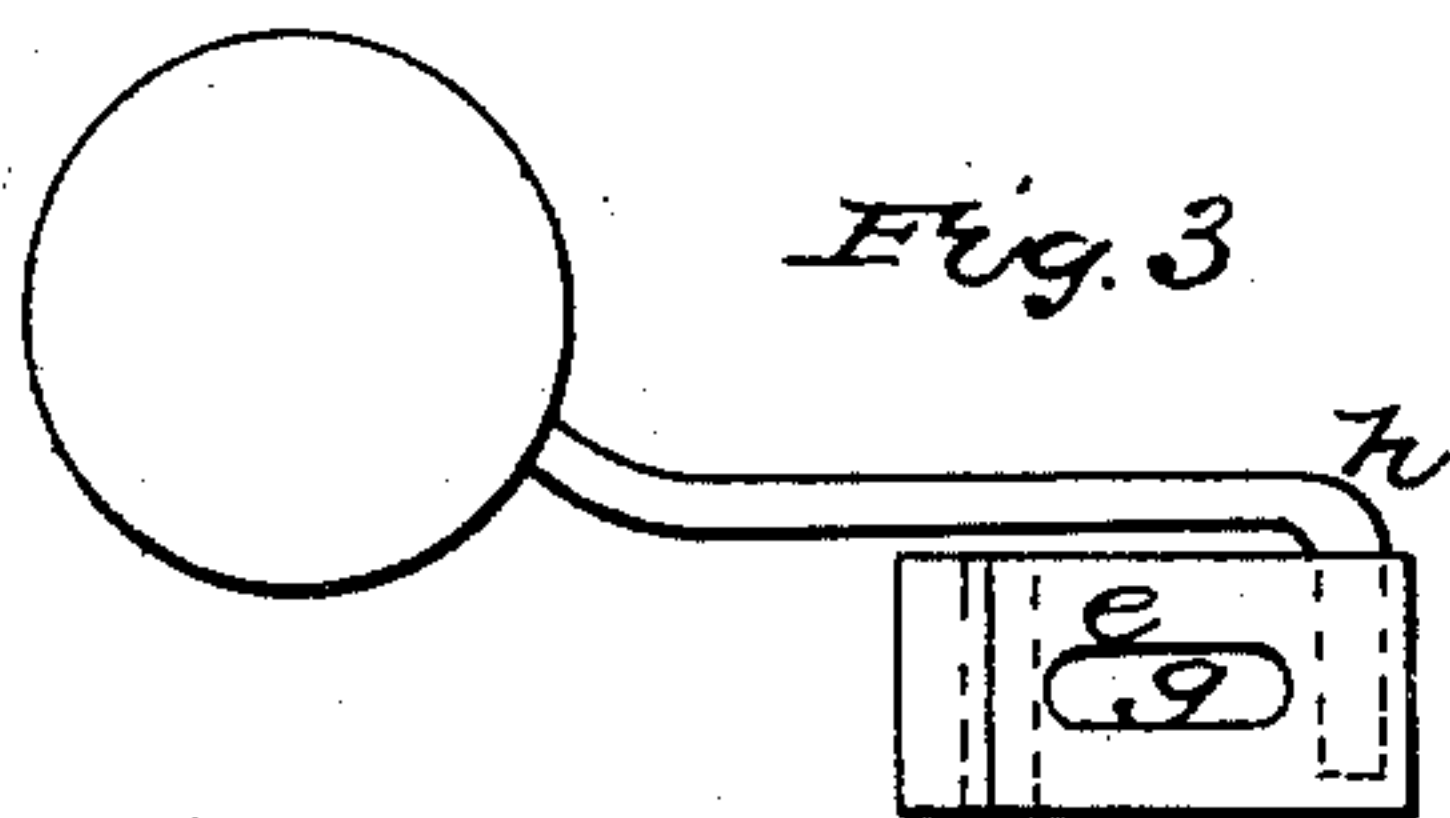
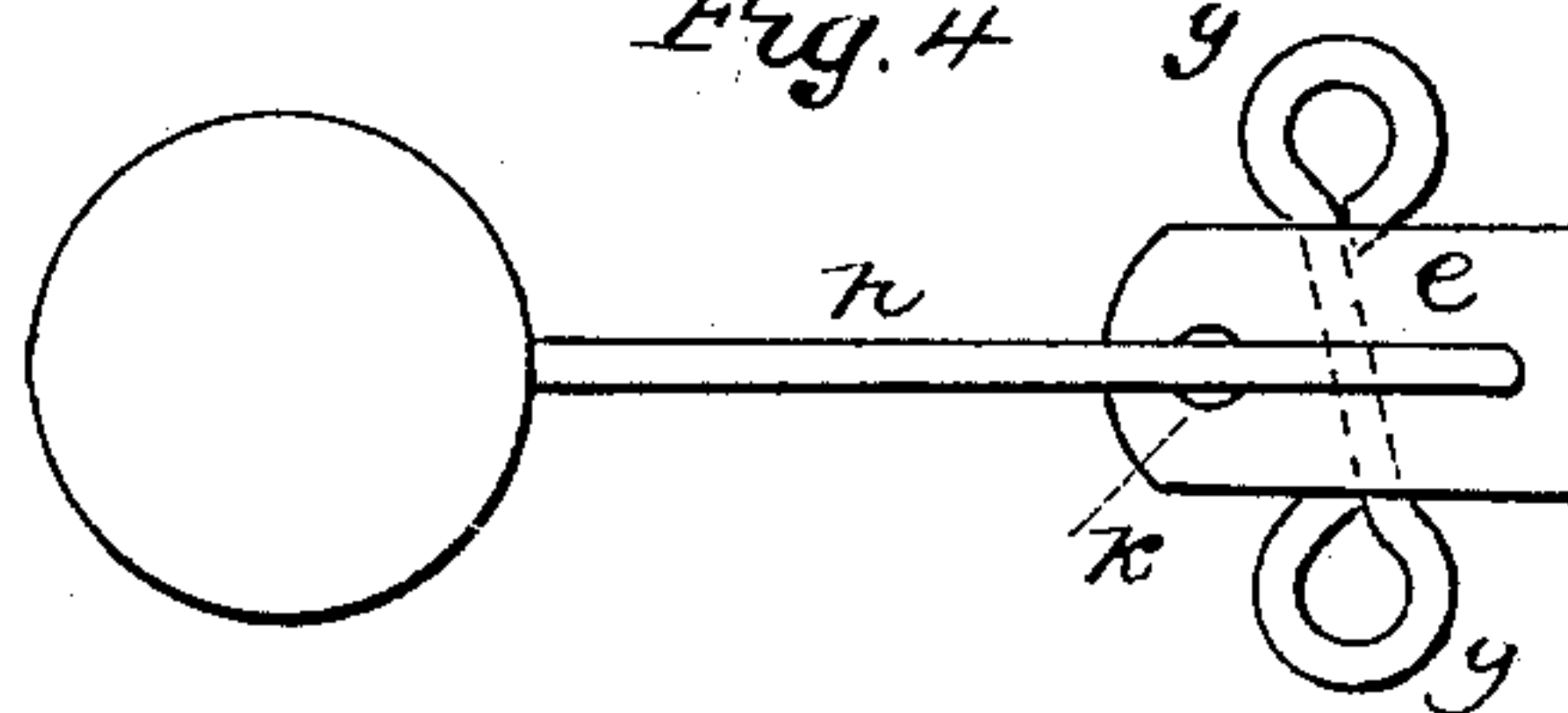


Fig. 4.



Witnesses
A. J. Collins.
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UNITED STATES PATENT OFFICE.

ANDREW TURNBULL, OF NEW BRITAIN, CONNECTICUT.

IMPROVED HOUSE-BELL.

Specification forming part of Letters Patent No. 55,558, dated June 12, 1866.

To all whom it may concern:

Be it known that I, ANDREW TURNBULL, of New Britain, county of Hartford, and State of Connecticut, have invented certain new and useful Improvements in House-Bells; and I do hereby declare that the same is described and represented in the following specification and drawings; and to enable others skilled in the art to make and use the same, I will proceed to describe its construction and operation by referring to said drawings, in which the same letters indicate like parts in each of the figures.

The nature of this improvement will be understood from the specification and drawings.

The object desired to be attained thereby is to produce or reduce the manufacture thereof to a perfect methodical or systematical process, so as to render it a complete and desirable article for trade and use, cheap and simple of construction and operation, and at the same time render the labor thereon (usually irksome) pleasant and agreeable.

In the accompanying drawings, Figure 1 is a sectional side elevation. Fig. 2 is a top view with the bell removed, showing its position by red lines. Figs. 3 and 4 show an edge and top view of the hammer and its actuating-hub.

a is a plate to or upon which all the parts are arranged and by which it is secured in the desired place for use by means of screws passing through the holes *b*.

c is a stud or post formed or cast nearly in the center and perpendicular with the length and width of the plate *a*. The outer end of this stud or post is provided with a shoulder and screw to receive the screw-thread formed in the center of the hollow of the bell *d*.

e is a cast-metal hub. The eyes *g* are cast into the hub near the center thereof by being placed in the sand or mold before the melted

metal is poured therein. The hammer-rod *h* is also cast into the hub *e* in the same way. The said hub and eyes may be cast or formed in one and the same piece of metal when desirable. The fulcrum-pin *i*, the pin *i'*, and the pull-rod guide-staple *i''* are all cast into the plate *a* in the same way. After this hub *e* is thus cast, a hole, *k*, is drilled in the center and near one end thereof, by means of which it is placed upon the fulcrum-pin *i*, (and the end slightly headed, so as to prevent its being removed therefrom,) so as to allow it to vibrate freely thereon between the detents *m*, (also cast on the plate *a*,) while one end of the spiral spring *n* is secured to the eye *g* and the other end to the pin *i'*, while the actuating or pull wire *o* is secured to the eye *g*.

Thus it will be seen that by pulling the wire *o* the upper or outer end of the hub *e* may be pulled and oscillate freely between the detents *m*, while the hammer *p* is caused thereby to strike the bell first one side and then the other.

Thus I am enabled to produce a cheaper, better, and more substantial article for trade and use.

I believe I have thus shown the nature, construction, and operation of this improvement, so as to enable others skilled in the art to make and use the same.

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

The cast-metal hub *e*, having the eyes *g* and rod *h* firmly secured therein, in combination with the spiral spring *n*, detents *m*, plate *a*, and bell *d*, substantially as and for the purpose described.

A. TURNBULL. [L. S.]

Witnesses:

A. S. COLLINS,
R. L. WEBB.