

(No Model.)

G. H. REICHOLD.
BURGLAR ALARM.

No. 562,197.

Patented June 16, 1896.

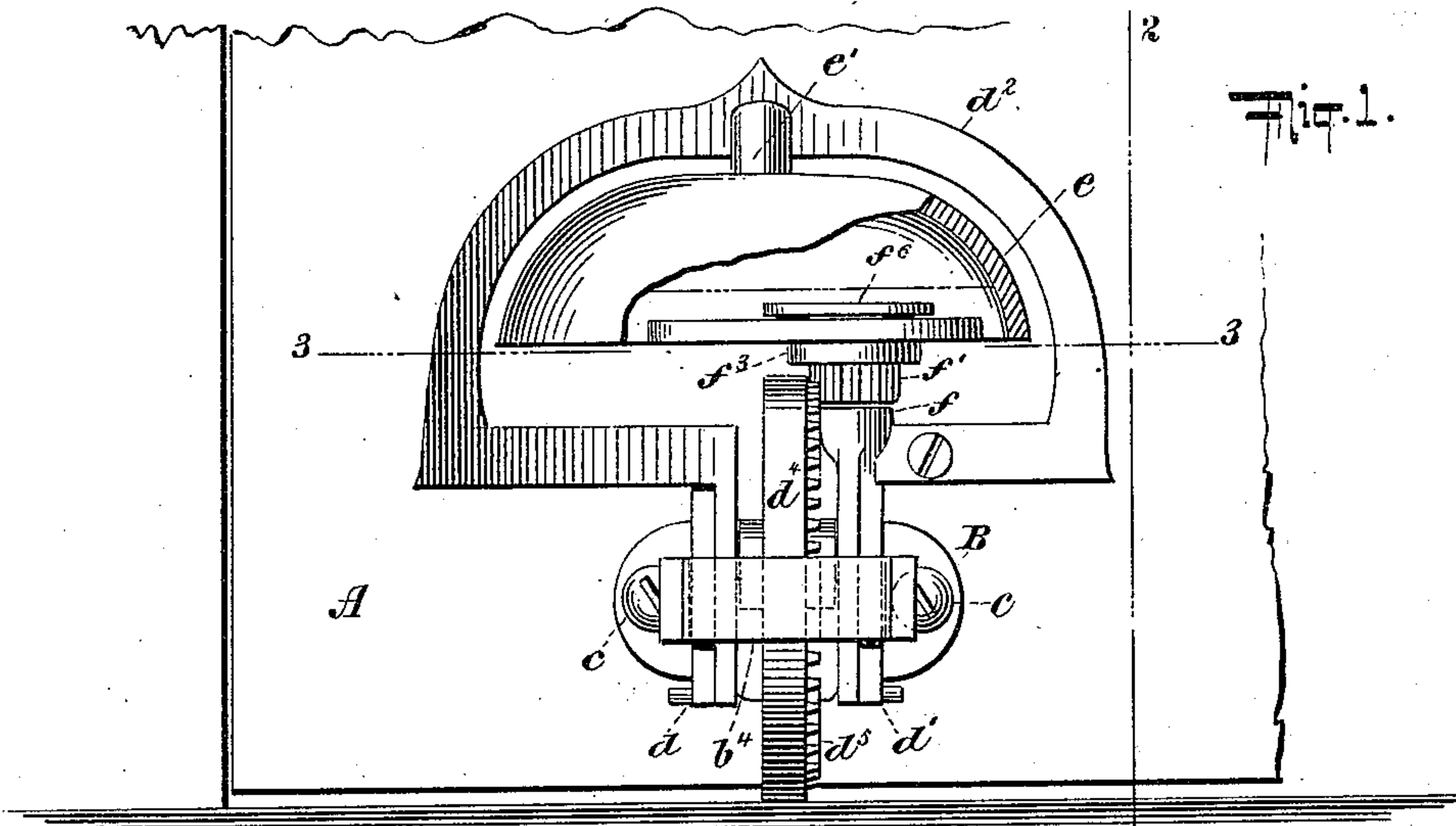


Fig. 1.

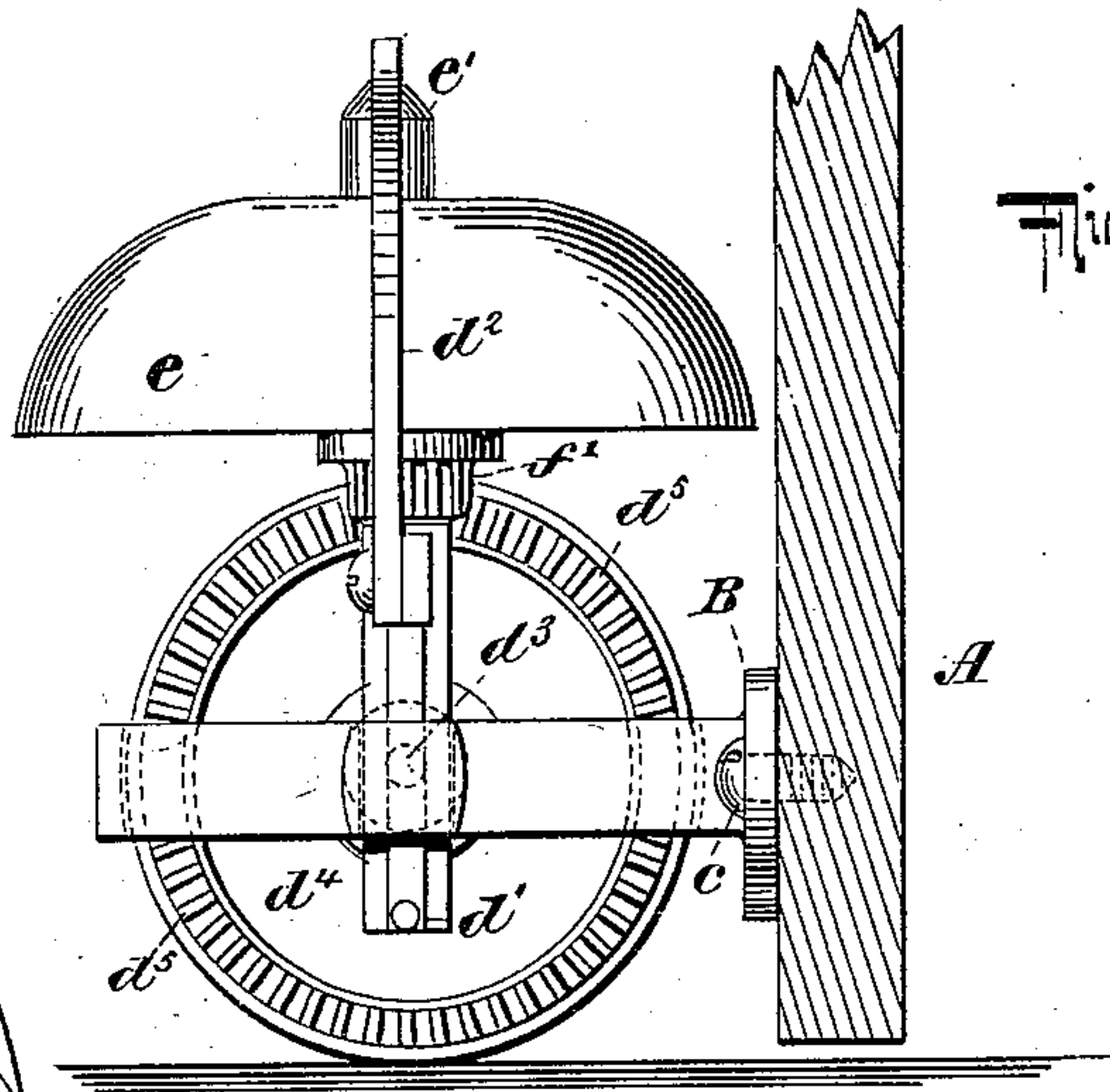


Fig. 2.

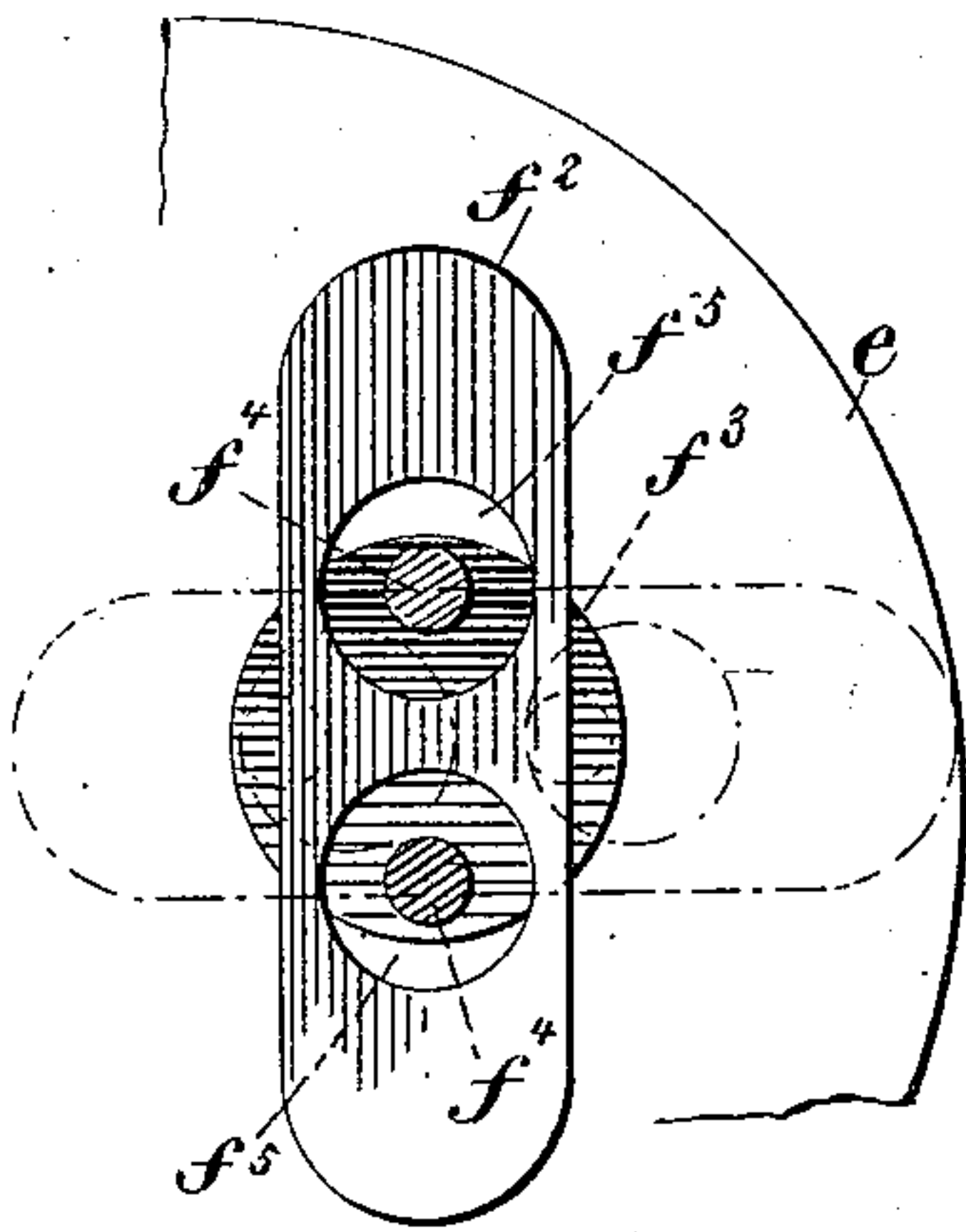


Fig. 4.

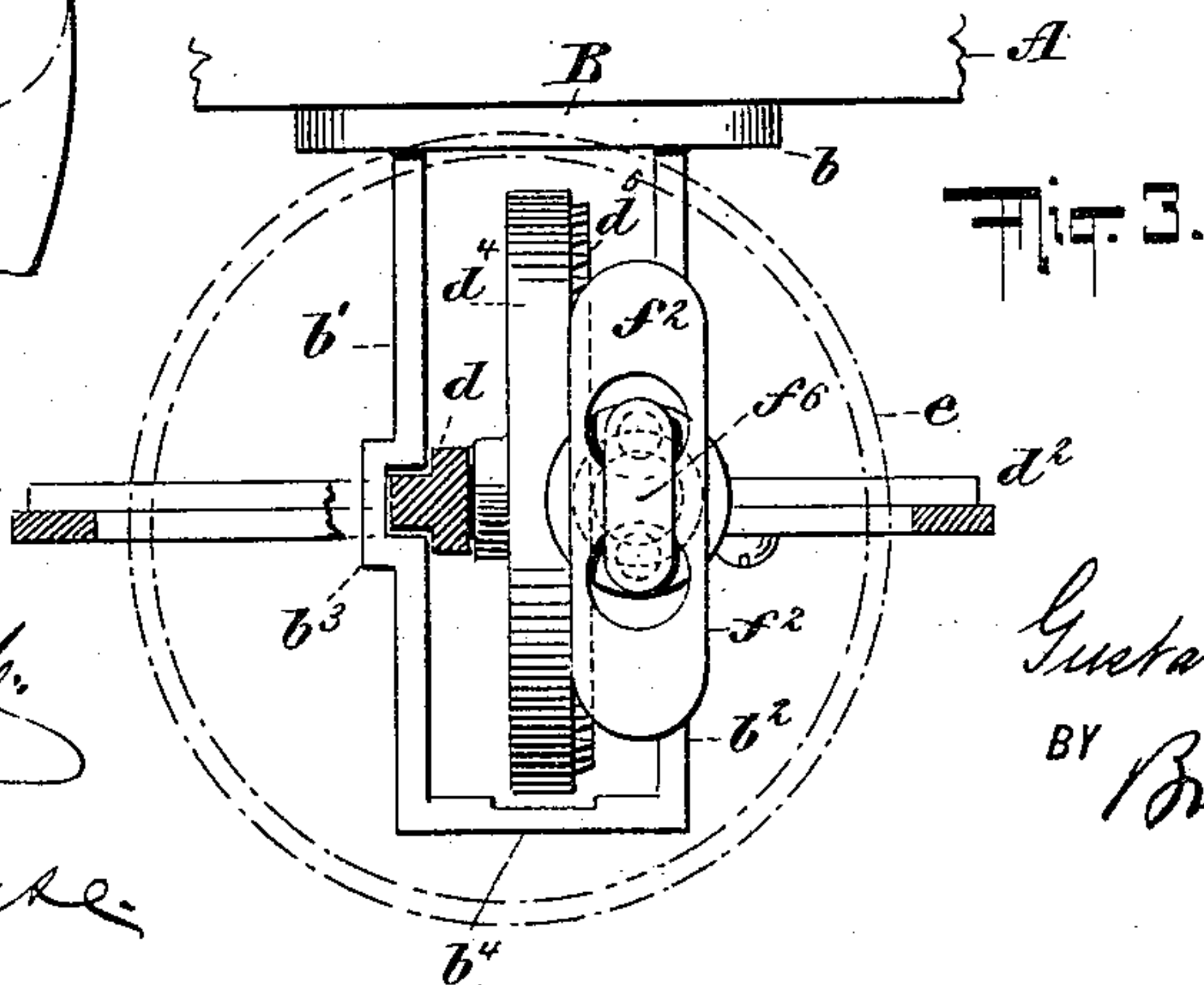


Fig. 3.

WITNESSES:

Gustav Dietrich
Ernst Morke

INVENTOR

Gustav H. Reichold
BY *Briesen Knauth*

ATTORNEYS.

UNITED STATES PATENT OFFICE.

GUSTAV H. REICHOLD, OF OZONE PARK, NEW YORK.

BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 562,197, dated June 16, 1896.

Application filed February 3, 1896. Serial No. 577,830. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV H. REICHOLD, a resident of Ozone Park, Queens county, State of New York, have invented certain new and
5 useful Improvements in Door-Alarms, of which the following is a specification.

My invention relates to door-alarms, and has for its object to produce an efficient door-alarm, having special reference to the qual-
10 ities of reliability of operation and ease of adjustment.

My invention consists in the construction hereinafter set forth and claimed.

My invention will be understood by refer-
15 ence to the accompanying drawings, in which—

Figure 1 is a side elevation, partly in section, showing a door-alarm embodying my invention. Fig. 2 is a side elevation thereof, the direction of view being at right angles to the direction of view in Fig. 1. Fig. 3 is a
20 section on line 3 3 of Fig. 1. Fig. 4 is a section on line 4 4 of Fig. 1.

In the drawings, A is a door or analogous
25 movable object. Mounted upon the door is a yoke or guide B. This yoke is shown as consisting of a fastening-plate *b*, which is secured to the door by suitable fasteners *c*, side bars *b'* *b*², which are offset and slotted at *b*³
30 and are united at their ends by slotted cross-bars *b*⁴.

Working in the slotted offsets of the yoke are standards *d* *d'*, which are united at their upper ends by a bow-yoke *d*² and near their
35 lower ends by a pivot *d*³, which carries an operating-wheel *d*⁴, adapted to run on the floor and provided with a toothed track *d*⁵. A sounding device *e* is supported by a stud *e'* from the bow-yoke *d*². The standard *d'* sup-
40 ports a pivot *f*, which carries a pinion *f'*, which meshes with the track *d*⁵ on the operating-wheel and carries a hammer *f*². The manner of mounting this hammer is shown clearly in Figs. 1, 3, and 4, whence it will be observed
45 that the pinion *f'* carries a disk *f*³, from which project pins *f*⁴, which extend through pinions *f*⁵ in the hammer *f*² and are capped and connected by a bar *f*⁶.

It will be observed that the apertures *f*⁵ are

much larger than the pins *f*⁴, so that the ham- 50
mer *f*² may have considerable lateral play, so that it may strike the sounding device *e*, the pins *f*⁴ being long enough to support the cap *f*⁶ at such a height as to leave the hammer *f*²
55 free to vibrate.

The operation of my device will be as follows: The standards moving freely in the yoke, the periphery of the wheel *d*⁴ will, when the device is mounted as shown, rest upon the
60 floor or other surface B. If now the door be swung, the wheel *d*⁴ will roll along the floor, thereby rotating the pinion *f'*, together with the plate or head *f*³, revolving the hammer, which is vibrated by centrifugal force until the edges of the apertures *f*⁵ come against the
65 pins *f*⁴, the hammer striking the sounding device *e* at the point *g*.

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

1. In a door-alarm, the combination of an
70 operating-wheel carried by the door and resting upon the floor, a rotary hammer-carrying device operated by the wheel, a sounding device and a longitudinally-reciprocating ham-
75 mer carried by the rotary hammer-carrying device and adapted to strike the sounding device.

2. In a door-alarm, the combination of a
80 slotted yoke carried by the door, standards working freely in the slotted yoke, a sounding device carried by the standards and partaking of the movement thereof, an operating-wheel
85 also carried by the standards and partaking of the movements thereof, the said operating-wheel resting upon the floor and being rota-
ted by the movement of the door, a hammer for striking the sounding device and inter-
mediate mechanism intervening between the
90 operating-wheel and hammer, whereby the sounding device will be struck when the door is moved and the operating-wheel rotated.

3. The combination in an alarm device of a
95 slotted yoke carried by a door, vertically-moving standards working in the yoke and carrying a sounding device, a pinion carried upon a standard, a reciprocating hammer carried and operated by the pinion, an operating-wheel resting on the floor and carried by the

standards, the said operating-wheel gearing with the pinion, substantially as described.

4. In an alarm device, the combination of a bell and hammer, a rotary hammer-support-
5 ing device, a slotted yoke carried upon a door, an operating-wheel gearing with the hammer-supporting device to rotate the said hammer-

supporting device and provided with supports coöperating with the slotted yoke, substantially as described.

GUSTAV H. REICHOLD.

Witnesses:

GEORGE MORSE,

CHARLES E. SMITH.