

(No Model.)

J. D. GILCHRIST.

ELECTRIC BELL AND ANNUNCIATOR.

No. 298,080.

Patented May 6, 1884.

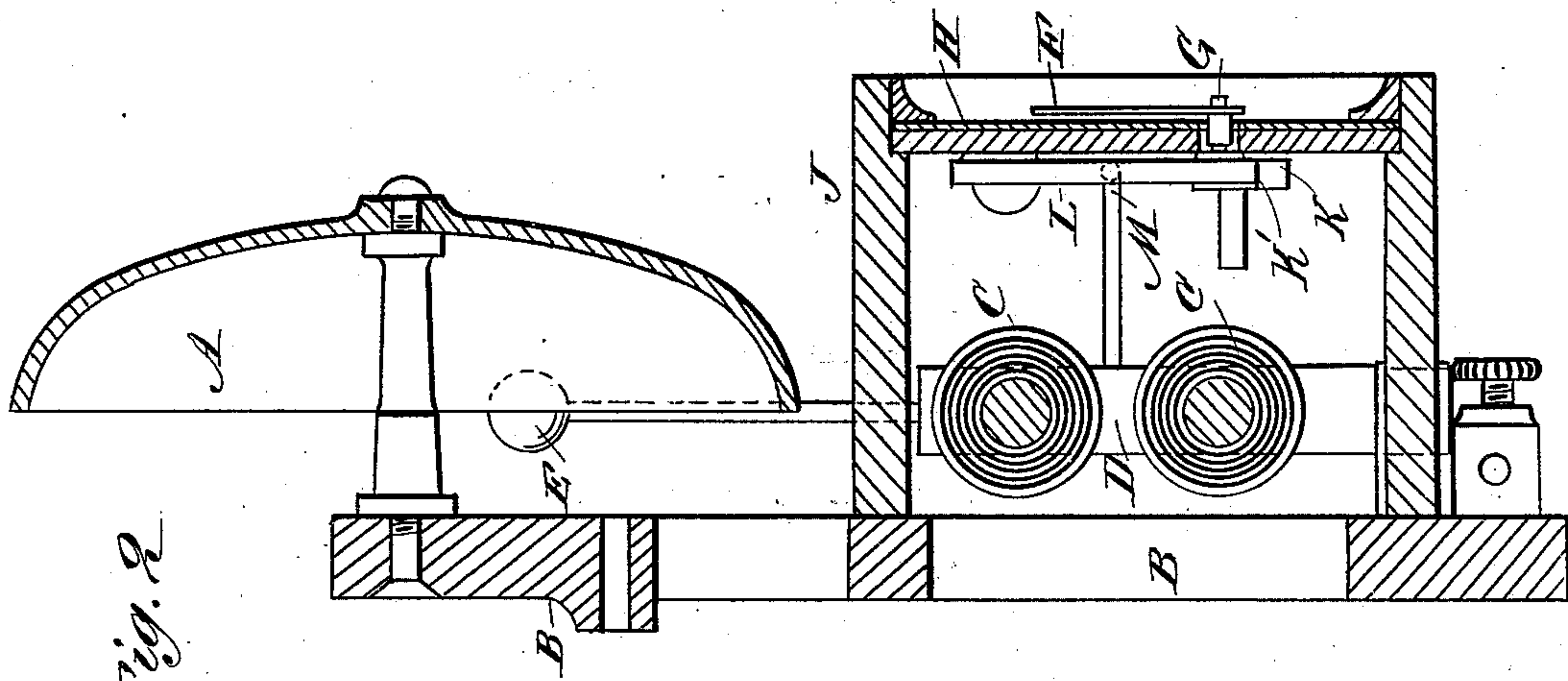


Fig. 2

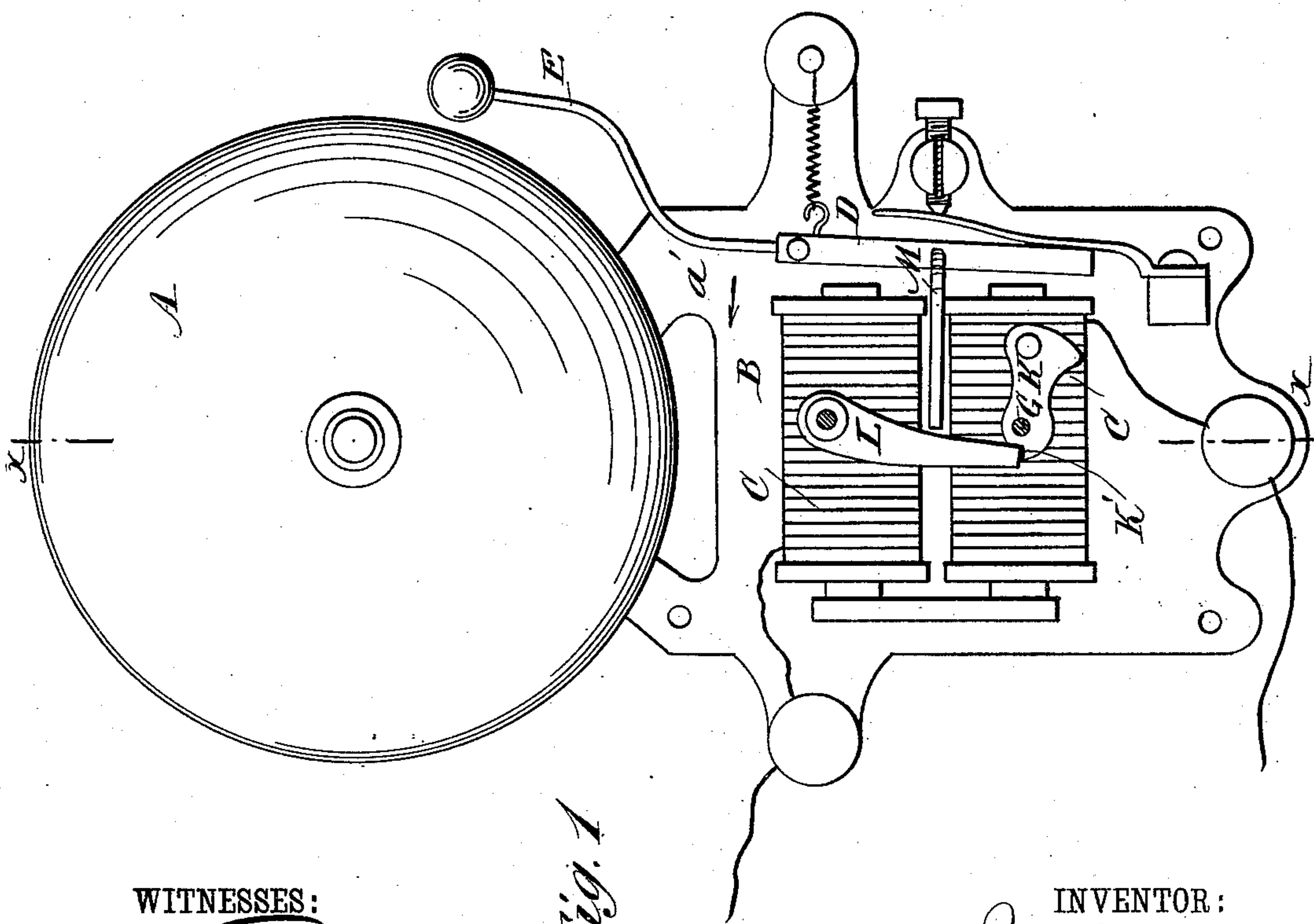


Fig. 1

WITNESSES:

C. Newell
C. Sedgwick

INVENTOR:

J. D. Gilchrist
BY *Munn & Co*
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN D. GILCHRIST, OF ISHPERING, MICHIGAN.

ELECTRIC BELL AND ANNUNCIATOR.

SPECIFICATION forming part of Letters Patent No. 298,080, dated May 6, 1884.

Application filed January 15, 1884. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. GILCHRIST, of Ishpeming, in the county of Marquette and State of Michigan, have invented a new and
5 Improved Combined Electric Bell and Annunciator, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved combined electric bell and
10 annunciator, which shows if the bell has been sounded.

The invention consists in the combination, with an electric bell, of a pointer or dial which is connected with a weighted block, a lever for
15 locking the pointer in place, and of an arm projecting from the armature and adapted to disengage the locking-lever from the weighted block to permit the same to swing the pointer upward to show that the bell has been sounded.

20 Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a face view of my improved combined electric bell and annunciator, the casing being removed. Fig. 2 is a cross-sectional
25 elevation of the same on the line *xx*, Fig. 1, with the casing in place.

A gong, A, is held on a frame, B, on which
30 an electro-magnet, C, is held, and to which frame an armature, D, is pivoted, which is acted on by a spring, the hammer E being secured to the said armature. A hand or pointer, F, is secured on the outer end of a short
35 shaft, G, held to turn in a plate, H, forming the front of a casing, J, surrounding the magnets. To the inner end of the shaft G a weighted piece or block, K, is fastened, which is provided with a shoulder, K'. A lever, L, is piv-
40 oted to the inner surface of the front plate, H, in such a manner that its free lower end can be engaged with the shouldered end of the block K. An arm, M, secured on the armature D, projects toward the lever L. The

block K is parallel with the pointer F. The
45 hand F is placed horizontally, and thereby the lever L automatically engages with the shouldered end of the block and locks the same in position, as shown in Fig. 1. If the magnet connected with the conducting-wires is ex-
50 cited, the armature is attracted, and is swung in the direction of the arrow *a'*, thereby causing the hammer to strike the gong. The arm M is moved with the armature and strikes the
55 lever L and swings the lower end of the same from the shouldered end of the block K, which is thus disengaged and swings down into a vertical position, whereby the pointer F is swung into a horizontal position, and thus
60 shows that the gong has been sounded.

In my improved combined electric bell and annunciator no special magnet is required for operating the annunciator, and the annun-
65 ciator can be combined with any electric bell at a comparatively small expense.

Having thus described my invention, I claim
as new and desire to secure by Letters Patent—

1. The combination, with an electric bell, of a pointer or hand, a weighted block con-
70 nected with the hand, a lever for locking the weighted block and hand in place, and an arm projecting from the armature for the purpose of disengaging the locking-lever from the weighted block, substantially as herein shown and described.

2. The combination, with an electric bell, of the casing J, having a face-plate, H, the
75 shaft G, held to turn in the face-plate, the hand F on the outer end of the shaft, the block K, secured on the inner end of the shaft G, and provided with a shoulder, K', the lever L, pivoted to the inner surface of the face-plate H, and of the arm M, secured to the armature-
80 D, substantially as herein shown and described.

JOHN D. GILCHRIST.

Witnesses:

DUNCAN GILCHRIST,
NEIL A. GILCHRIST.