

(No Model.)

2 Sheets—Sheet 1.

J. BURMANN.
WATCH STAND ALARM.

No. 327,919.

Patented Oct. 6, 1885.

Fig. 2

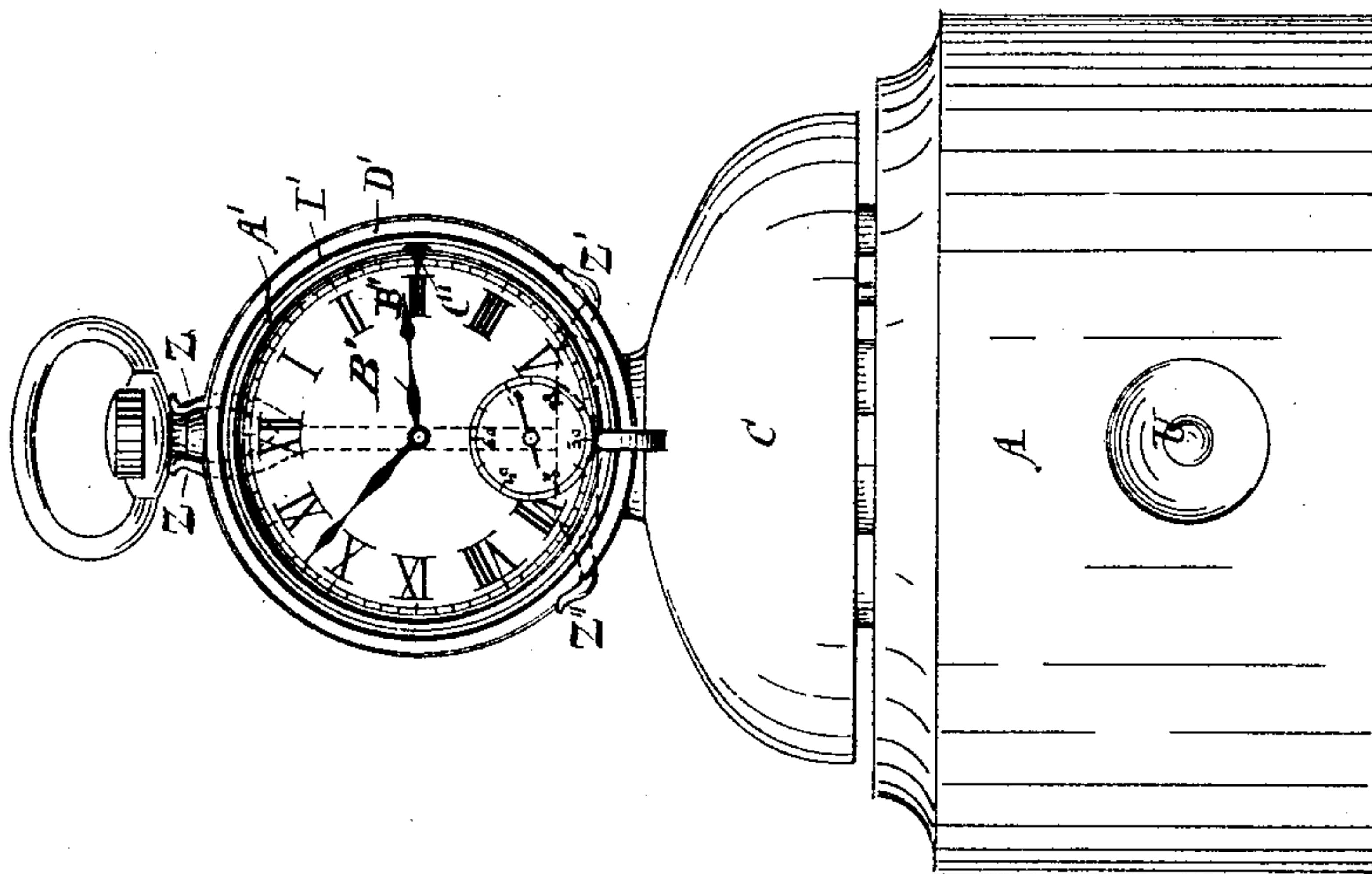
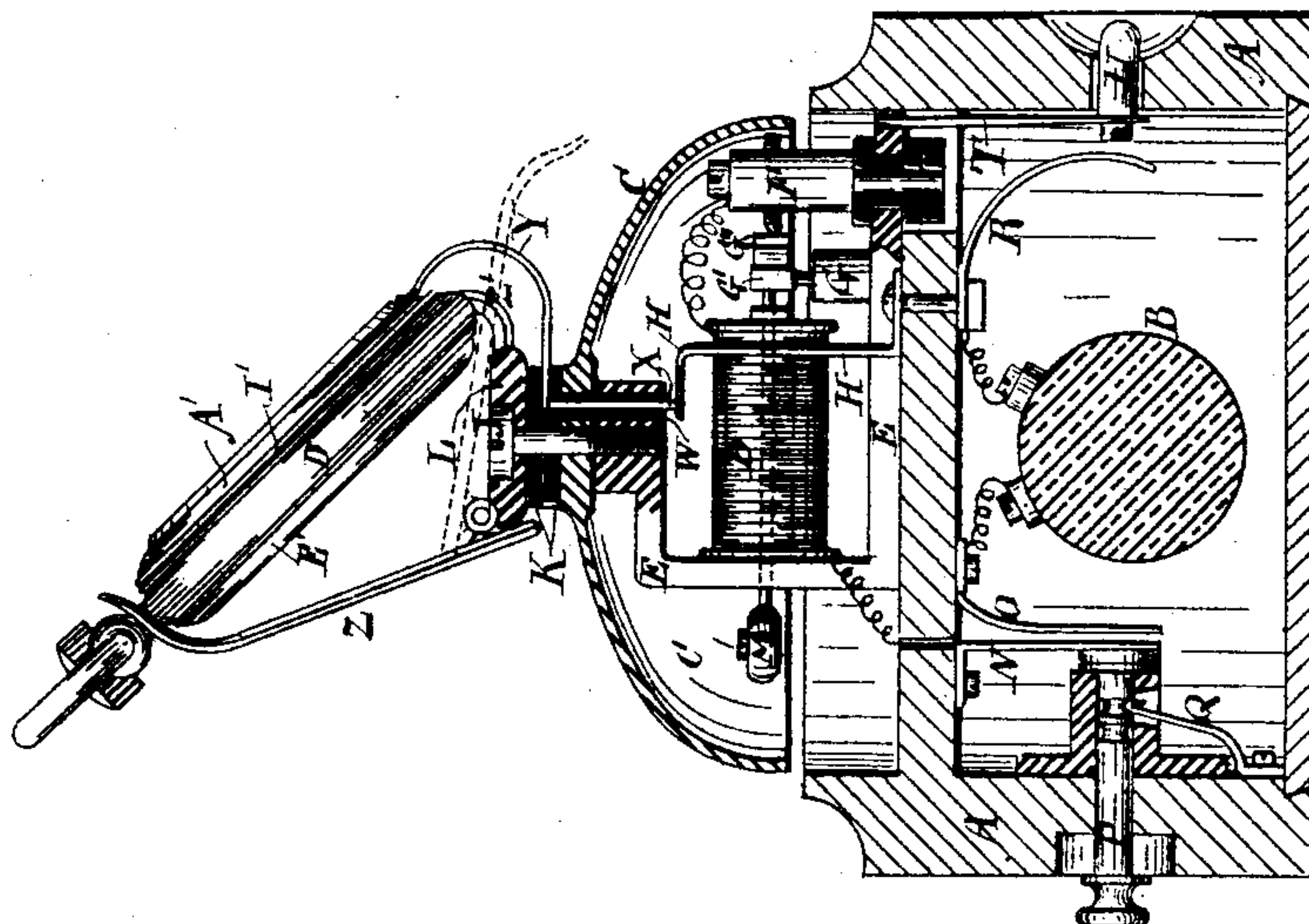


Fig. 1



Witnesses:

Alphonse
Alphonse

Inventor:

Jacob Burmann

(No Model.)

2 Sheets—Sheet 2.

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Fig. 4

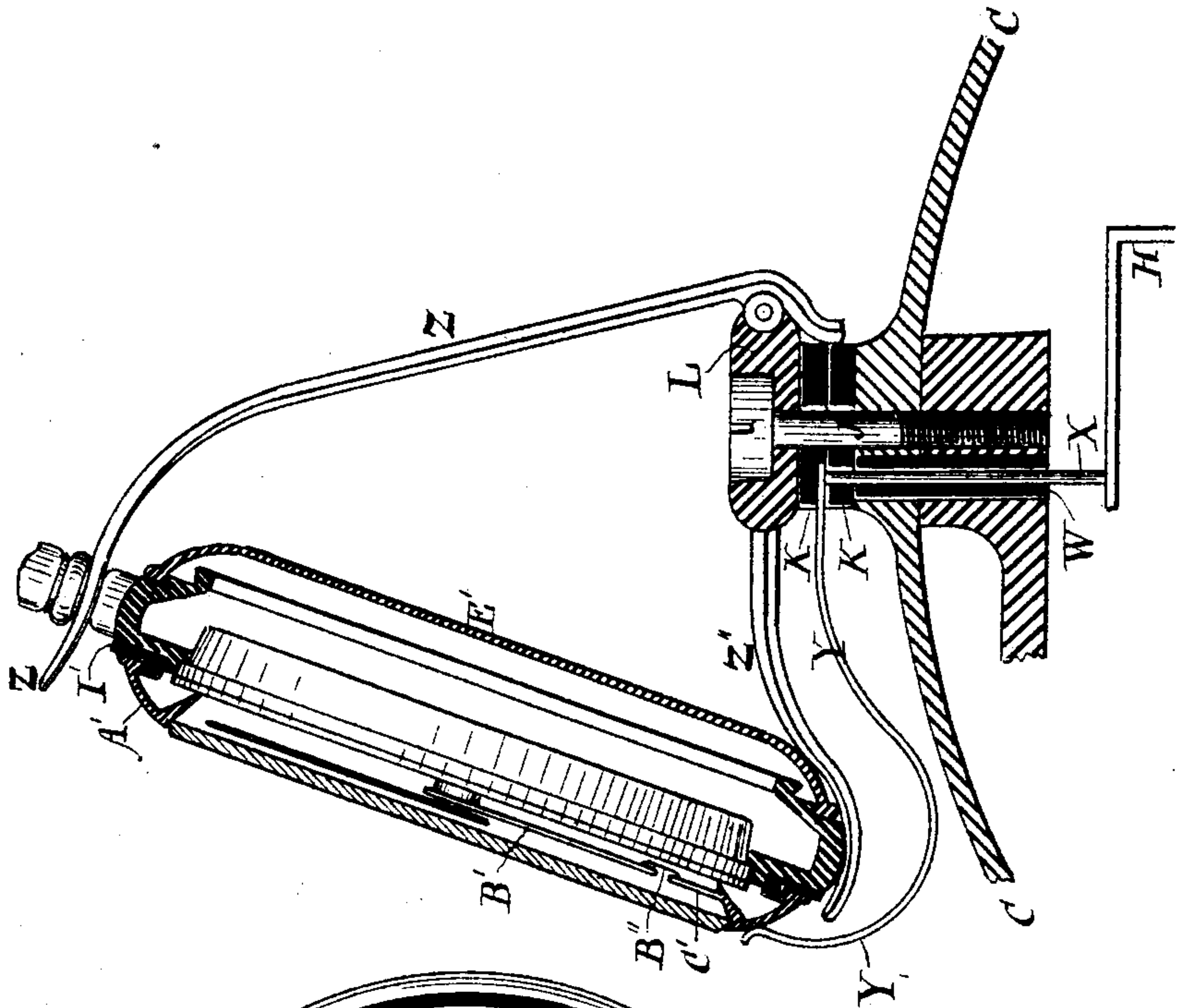
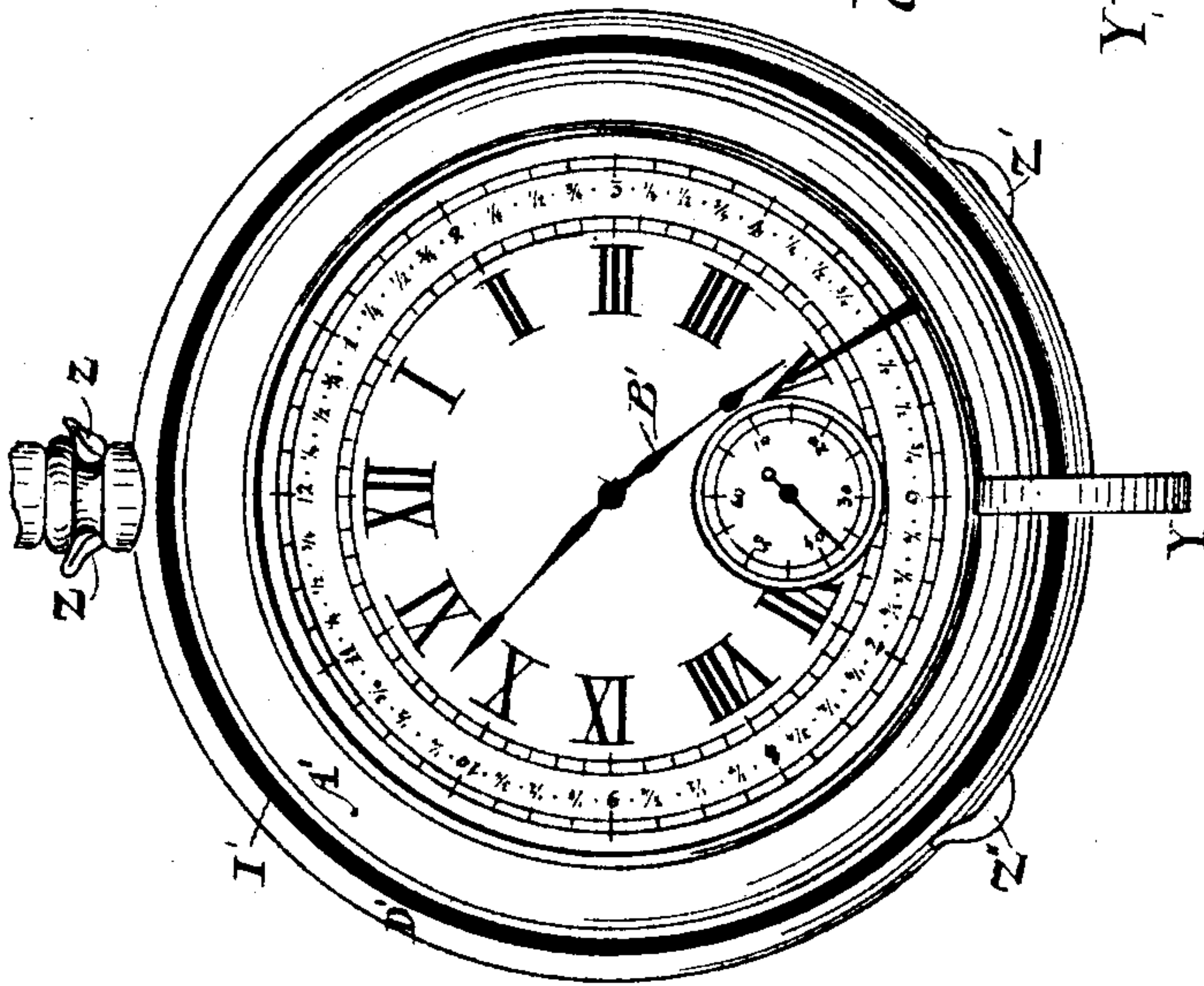


Fig. 3



Witnesses:

Witnesses:
Alfred
Alfred

Inventor.

Jacob Burmann

UNITED STATES PATENT OFFICE.

JACOB BURMANN, OF BIENNE, SWITZERLAND.

WATCH-STAND ALARM.

SPECIFICATION forming part of Letters Patent No. 327,919, dated October 6, 1885.

Application filed May 14, 1885. Serial No. 165,442. (No model.) Patented in Italy February 18, 1885, XVIII, 17,619, XXXV, 281, and in France February 25, 1885, No. 165,089.

To all whom it may concern:

Be it known that I, JACOB BURMANN, of Bienne, Switzerland, have invented a new and Improved Watch-Stand and Electrical Alarm-Watch, (which has received Letters Patent protection in France, February 25, 1885, No. 165,089, and in Italy February 18, 1885,) of which the following is a full, clear, and exact description.

10 The object of my invention is to provide a new and improved watch-stand containing an electric-bell, which is sounded when the circuit is closed by an ordinary watch having circuit-closing devices and placed on the stand.

15 The invention consists in the construction and combination of parts and details, as will be fully set forth and described hereinafter.

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

25 Figure 1 is a longitudinal sectional elevation of my improved electric alarm-watch stand. Fig. 2 is a front view of the same. Fig. 3 is an enlarged face view of the watch. Fig. 4 is an enlarged cross-sectional elevation of the same.

30 In a wooden box, A, the electric battery B, of any desired well-known construction, is placed, and in the top of the box a metal arm, E, is fastened, on which a bell or gong, C, is held by means of the screw J.

35 The bell covers the alarm mechanism, which consists of an electro-magnet, D, having an armature, G', carrying a hammer, M, for striking the bell C.

40 A metal piece, L, held by the screw J, has the arms Z, Z', and Z'', which serve to hold the watch D', the arm Z having its end forked, and the arms Z' Z'' having hooks. The arm Z is hinged so that it can be swung down, as shown in dotted lines in Fig. 1, when the apparatus is to be packed. The screw J establishes a metallic contact between the piece L and the arm E on the bell, which arm E and bell C are insulated by two pieces, K, of insulating material.

45 A metal spring, Y, is held between the in-

50 sulating-pieces K, and its inner end rests upon the upper end of a wire, X, surrounded by a tube, W, of insulating material, the lower end of the wire X resting on a spring, H, with which it is brought in electrical contact. The spring is connected with one pole of the battery B.

55 The arm E, on which the stud G is fastened, bearing the vibrating armature G', is in electrical contact with the stud F by means of the spring G''.

60 The stud F is insulated from the arm E, and connected with one end of the coil of the magnet, the other end of which coil is connected with the switch N O P, or directly with the battery B.

65 If the alarm is to be used, the push-pin P must be pushed inward to bring the parts N and O of the switch in contact, the pin P being locked in place by the spring Q.

70 It is evident that an alarm will be sounded as soon as an electric contact is established between the spring Y and one of the arms Z, Z', or Z''.

75 A ring, I', of insulating material is held between the case D' and the bezel A', which bezel is provided with an adjustable metal hand or pointer, C', which can touch the hour-hand B' of the watch, the said pointer C' being below the crystal held in the bezel. A small platinum spring or contact-piece, B'', is held 80 on the end of the hour-hand B', or on the pointer C', which spring or contact-piece may have a greater or less width, according to the time the circuit is to remain closed.

85 The pointer C' is then placed to the hour, &c., at which the alarm is to be sounded, and when the hour-hand arrives at the said pointer the circuit will be as follows: From the battery through the spring Y, the bezel A', the hand C', the hand B', through the metallic 90 parts of the watch, the arms Z Z' Z'', and through the electro-magnet to the battery, when the hammer M is operated and the alarm sounded.

95 The box may be provided with the push-button U and the springs R T, by means of which the circuit can be closed at any time by pushing the button U inward to give an alarm

or signal, thus adapting the stand to be used as a call-bell.

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

5 1. A watch-stand having devices, substantially as described, for holding removably an ordinary pocket-watch, and containing an electric alarm electrically connected to the watch-holding devices, and an electric closing-
10 circuit, substantially as and for the purpose set forth.

2. The combination, with a watch-stand, of an electric bell on the same, arms for holding the watch connected with the alarm mechanism, and of a spring connected with the
15 alarm mechanism, and which can be brought in contact with the bezel of the watch, substantially as herein shown and described.

3. The combination, with a watch-stand for
20 holding an ordinary pocket-watch, of an electric bell, arms for holding the said watch removably and connecting electrically with the bell mechanism, and with an electric circuit-closing device for sounding the bell when de-

sired, substantially as herein shown and described. 25

4. The combination, with a watch-stand containing an electric bell, of arms for holding the watch, which arms are in electrical contact with the bell mechanism, a spring which
30 can rest against the bezel of the watch, and of an adjustable contact-piece on the bezel, substantially as herein shown and described.

5. The combination, with a watch-stand for holding a pocket-watch removably, of an electric-bell mechanism connected with the watch-
35 holding arms of said stand, and of a switch for breaking the circuit, substantially as herein shown and described, and for the purpose of putting the bell mechanism out of operation. 40

6. A watch having its bezel insulated from the case, and an adjustable hand on said bezel, substantially as herein shown and described.

JACOB BURMANN.

Witnesses:

MUENED,
ALPH SPAHR.