

R. SCHONE.

Time Check.

No. 30,841.

Patented Dec. 4, 1860.

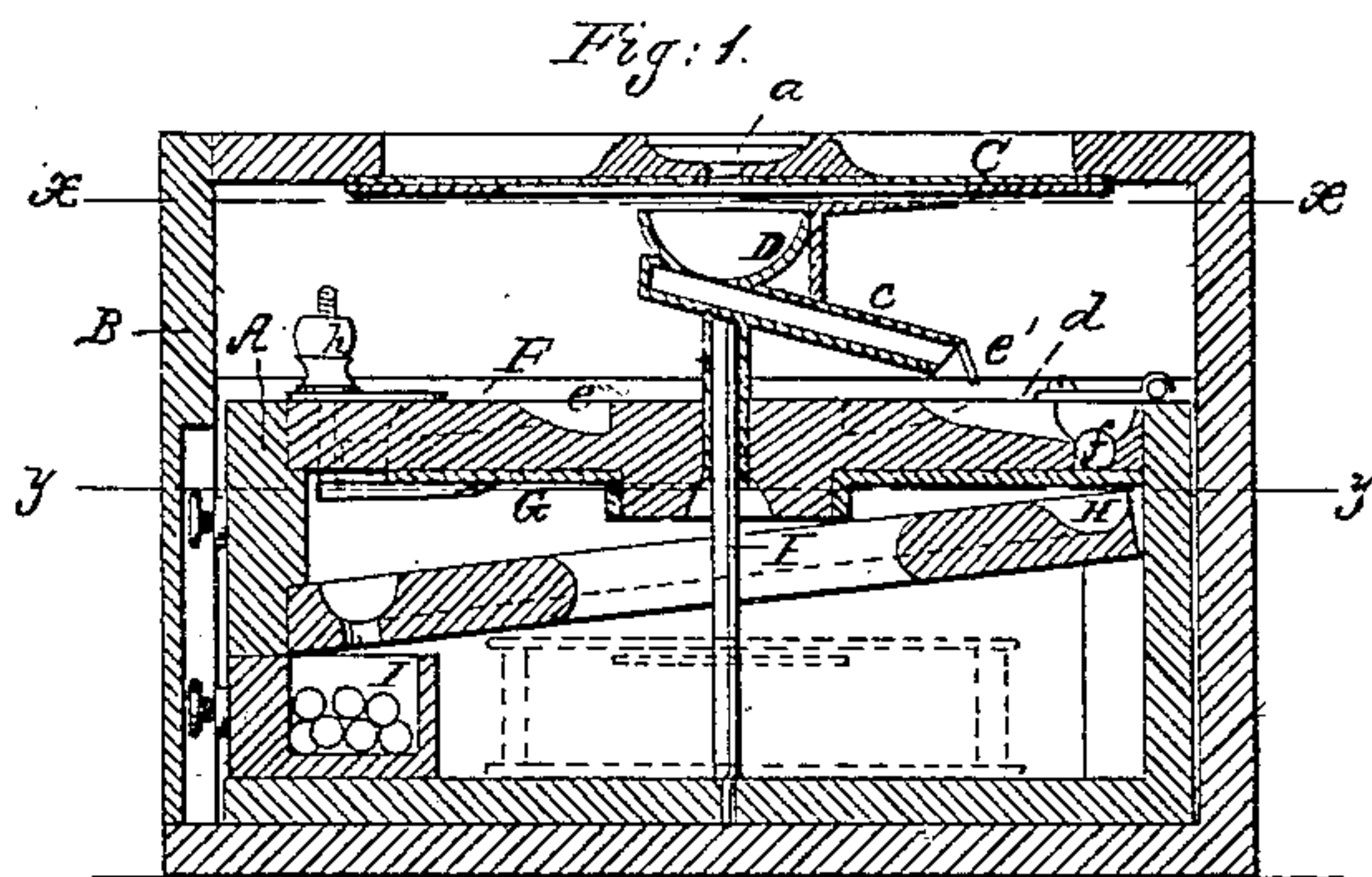


Fig: 3.

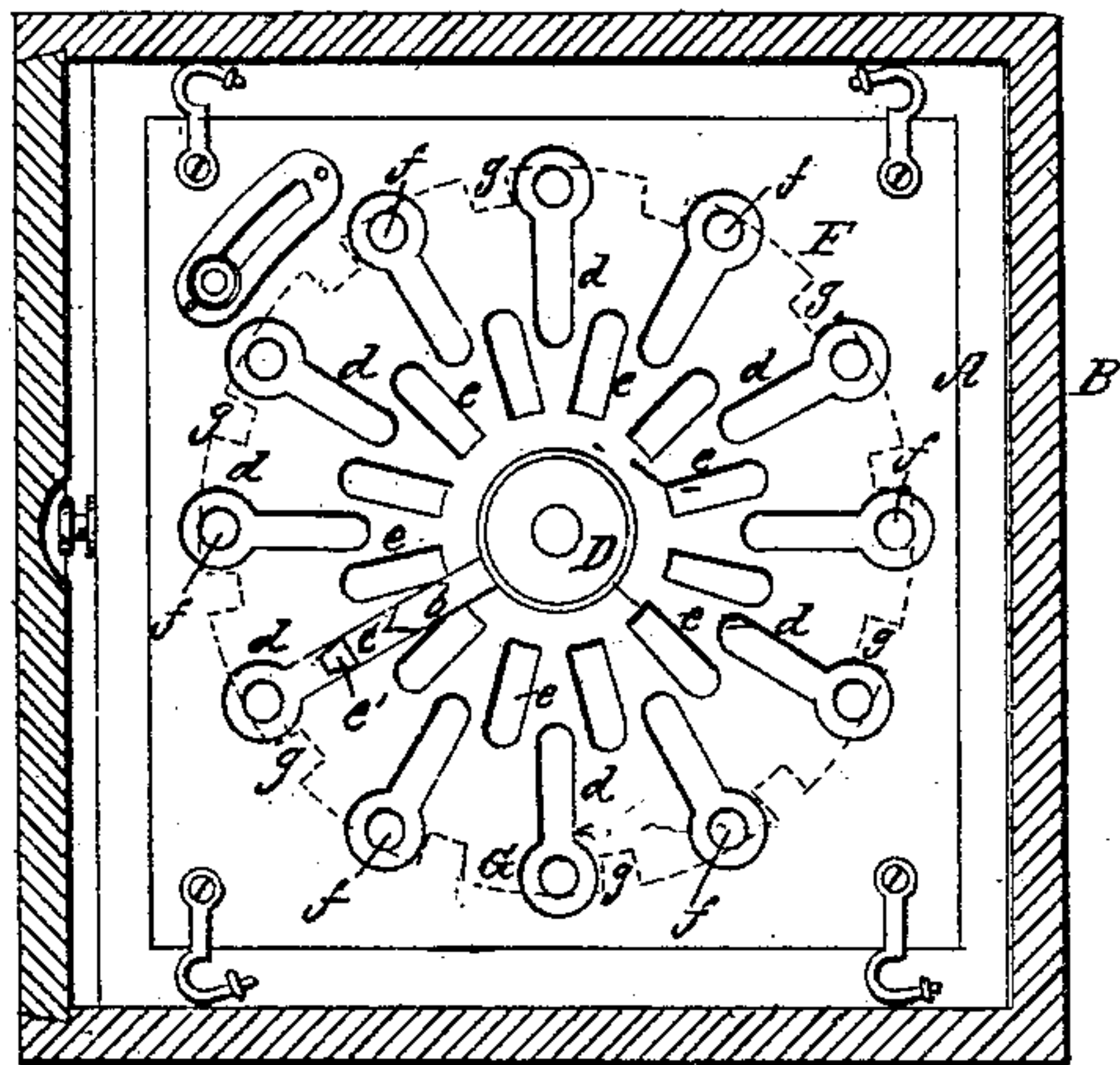


Fig: 2.

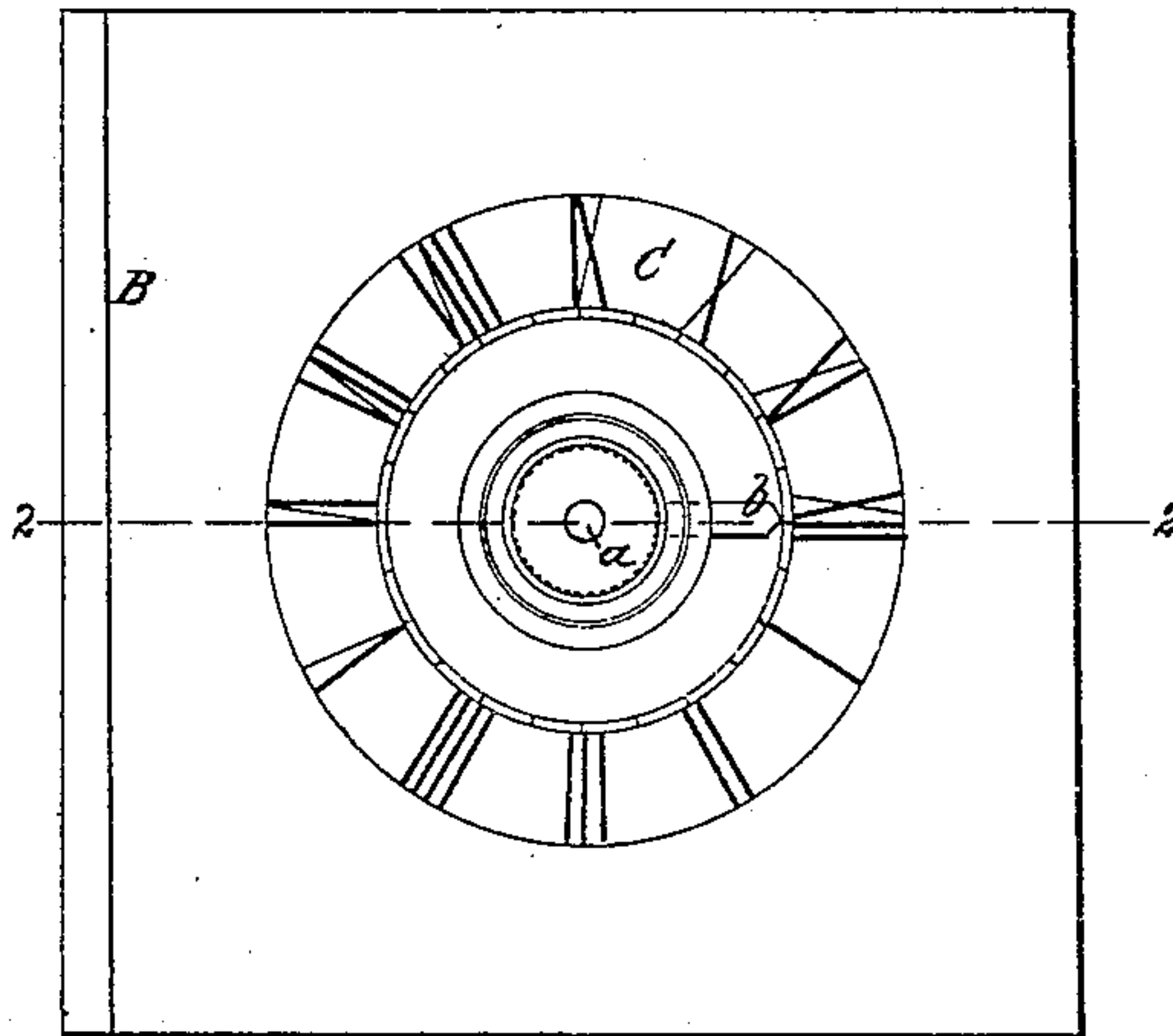
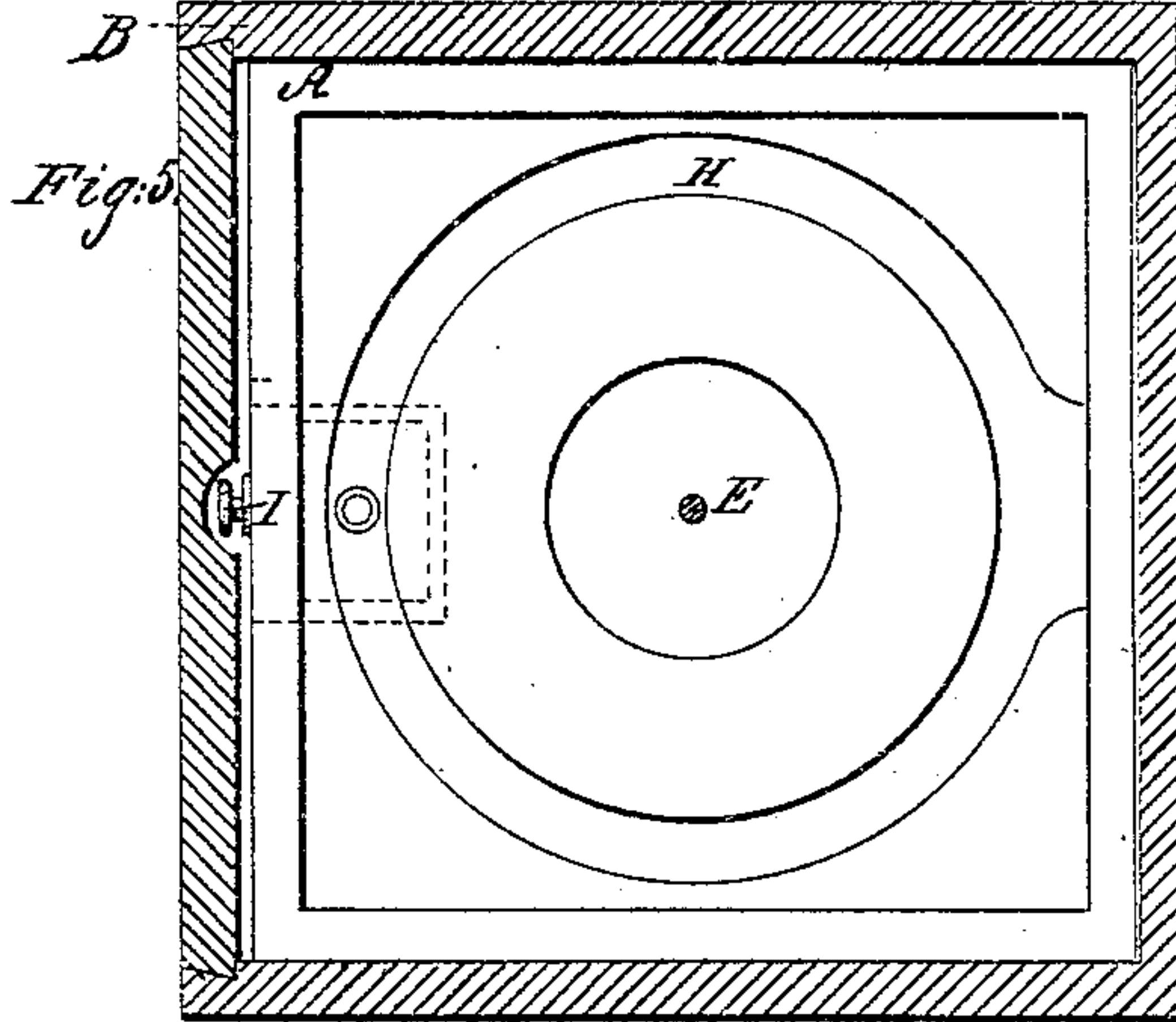
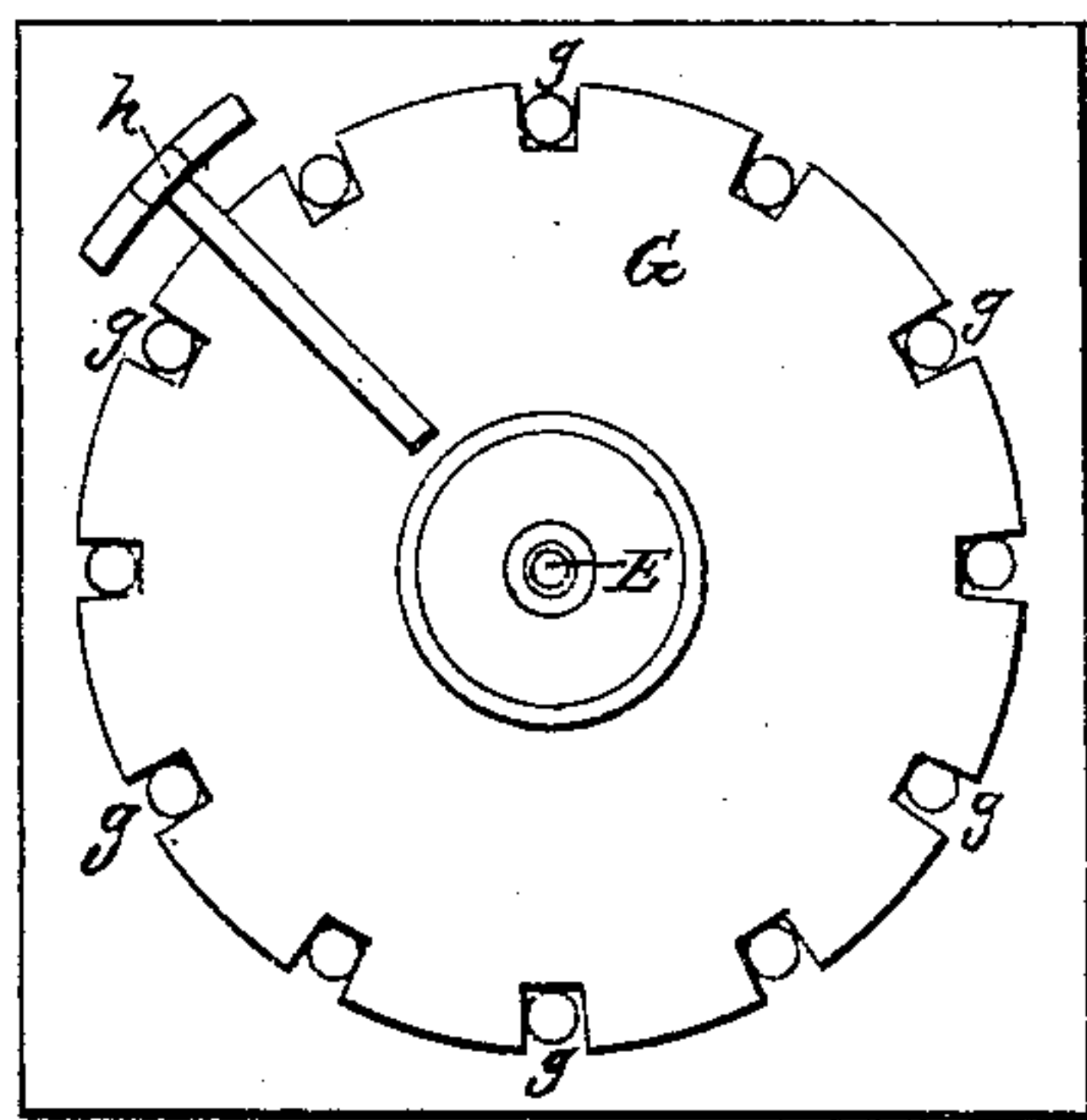


Fig: 4.



Witnesses:
Christian Angele.

Inventor:
Robert Schone.

UNITED STATES PATENT OFFICE.

ROBERT SCHÖNE, OF NEW YORK, N. Y.

TIME-REGISTER.

Specification of Letters Patent No. 30,841, dated December 4, 1860.

To all whom it may concern:

Be it known that I, ROBERT SCHÖNE, of the city, county, and State of New York, have invented a new and Improved Workman's Time-Register; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—
10 Figure 1, represents a longitudinal vertical section of my invention taken in the plane indicated by the line z, z , Fig. 2. Fig. 2, is a plan or top view of the same. Fig. 3, is a horizontal section of the same, the line
15 x, x , Fig. 1, indicating the plan of section. Fig. 4, is an inverted plan of the device for discharging. Fig. 5, is a horizontal section of my apparatus taken in the plan indicated by the line y, y , Fig. 1.

20 Similar letters of reference in all the figures indicate corresponding parts.

In many factories especially in large cities, where the space is limited, it happens, that the office of the establishment is in one part
25 of the building and the workshop in another, and that the employer enters through another door, than those employed. In such cases and also in all cases where it is not convenient to employ an extra person for the purpose of checking the time of each
30 employee as he enters and leaves the place, the employers, depend more or less upon the honesty of the employees, and an apparatus, which will automatically control the time
35 of each employee as he enters and leaves the place is a great desideratum. With ordinary devices for this purpose the principal difficulty has been, that every one of them employs tickets or flat pieces of pasteboard
40 inscribed with the name of the employee, and for this reason it has been necessary to put up the apparatus in the room, or near the passage taken by the employees, whereas the proper place for the apparatus is the
45 office of the employer.

In order to enable me to put up the apparatus under all circumstances in the office of the employer, I have arranged the same in such a manner that I can employ
50 balls, made of hardwood, bone, ivory or any other suitable material, and marked so that the balls of each employee can easily be distinguished. A small tube from any part of the building, provided the office is
55 in the ground floor, which is generally the case, conveys the balls to the apparatus,

which gives the exact time of the entrance or departure of each employee. Besides this improvement I have arranged the interior of my apparatus so, that the balls can be
60 easily discharged and collected in a little drawer in the lower part of the apparatus, after the time of each employee has been noted.

To enable those skilled in the art to make
65 and use my invention, I will proceed to describe its construction and operation with reference to the drawing.

My apparatus is arranged in and on a case A, which in its turn is placed in the interior of a box B, the top of which is provided with an ordinary clock dial C, of glass or any other transparent material and which has an aperture a , in the center to communicate with the funnel shaped cup or
70 receiver D, of the apparatus. The cup D, is placed on a vertical arbor E, to which motion is imparted from an ordinary clock movement, which causes the same to revolve once in twelve hours. An index b , which is
80 attached to the receiving cup D, travels under the dial C, and indicates the hours of the day.

The balls which may be placed into the receiving cup, are conducted through the
85 spout c , to the cavities d, e , in the top plate F, of the case A. These cavities are plainly shown in Fig. 3, in the drawing. The twelve cavities d , correspond with the full hours of the dial-plate C, and the twelve
90 cavities e , with the half hours, so that if a ball is deposited in the cup D, at or near 7 o'clock, it will roll into one of the cavities d , corresponding to seven, and if the ball is deposited at or near $7\frac{1}{2}$ o'clock it will roll
95 into one of the cavities e , corresponding to $7\frac{1}{2}$ o'clock, etc. The end of the spout is provided with a lip (e') which forms a check to prevent the balls from rolling beyond the cavities. The cavities d , lead to holes f ,
100 in the top plate F, and these holes are closed by a disk G, (see Fig. 4), the edge of which is provided with twelve notches g , corresponding in position to the position of the holes f . The disk G, is slightly turned on
105 its center by means of a button h , and it may be brought in such a position, that the notches g , register with the holes f , or it may be turned so that these notches come under the solid portions of the top plate F,
110 and that it closes the holes f . The half hour cavities e , might be similarly ar-

ranged, and if it is desired to discharge the balls which may have been deposited in the apparatus the disk G, is turned so that the notches *g*, register with the holes *f*, and the balls are allowed to drop through.

Under the disk and in the lower part of the case A, is the stationary inclined circular channel H, which receives the balls as they are discharged from the cavities *d*, and which conducts them to a drawer I, in the lower part of the case. By these means all the balls are collected by simply turning the disk G.

This apparatus can be placed into the office and tubes leading to any part of the building may be arranged to conduct the balls to the cup D, and if each employee as he enters the place of business and as he de-

parts, deposits a ball marked with his initials or of a peculiar color, in the cup, the employer will be enabled without leaving the office to tell the time of his employees.

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

The arrangement of the lip *e'*, on the spout *c*, in combination with the cavities *d*, *e*, notched movable disk G, inclined circular channel H, and drawer I, constructed and operating as and for the purpose herein specified.

ROBERT SCHÖNE.

Witnesses:

WM. SINCLAIR,
CHRISTIAN ANGELE.