

(No Model.)

J. E. MAMMEN.

AUTOMATIC REGISTER FOR BARBERS' CHAIRS.

No. 505,053.

Patented Sept. 12, 1893.

Fig 1

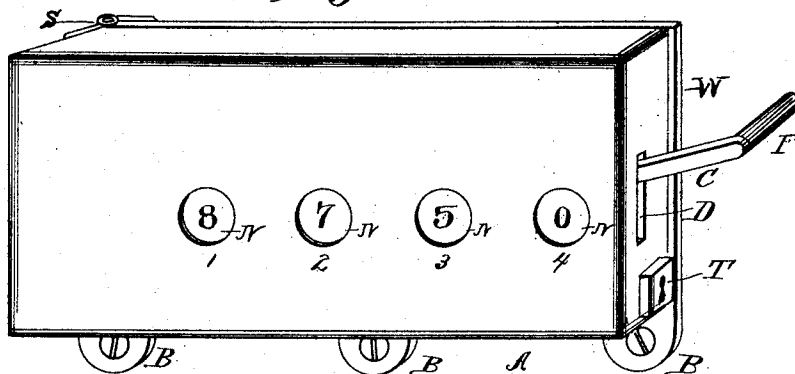


Fig 2

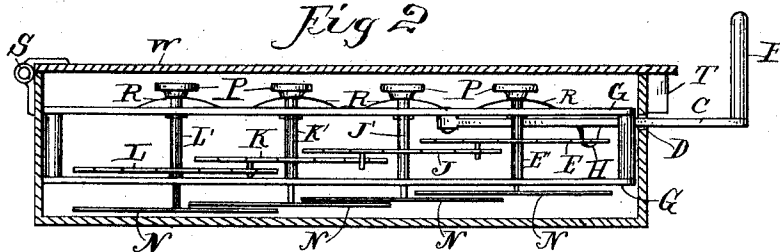


Fig 3

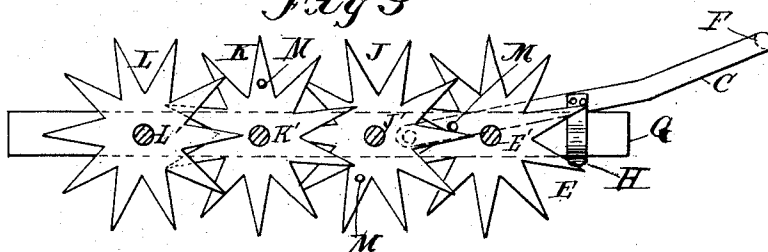
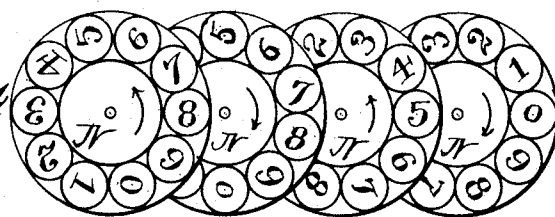


Fig 4



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN ED. MAMMEN, OF STERLING, ILLINOIS, ASSIGNOR OF ONE-HALF TO
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AUTOMATIC REGISTER FOR BARBERS' CHAIRS.

SPECIFICATION forming part of Letters Patent No. 505,053, dated September 12, 1893.

Application filed March 20, 1893. Serial No. 466,760. (No model.)

To all whom it may concern:

Be it known that I, JOHN ED. MAMMEN, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Automatic Registers for Barbers' Chairs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has reference to an automatic register for barbers' chairs, adapted to be operated by the usual downward movement of the rear end of the upper portion of the chair, occasioned by the customer taking his position to be shaved, and thereby exhibiting the number of shaves which have been given in said chair from the time of the last adjustment of the machine; also, means for locking the apparatus from access by persons other than the one carrying the key, thereby securing the advantage to the proprietor of the barber shop of, at all times, knowing what number of men have been shaved in each of the chairs in his establishment.

I attain the above purposes by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective of my invention, viewed from the rear of the chair. Fig. 2 is a horizontal section through about the center of Fig. 1. Fig. 3 is a detail of the actuating star-wheels. Fig. 4 is a detail of the registering dials.

The same letters refer to the same or similar parts throughout the several views.

As my invention is adapted to be attached, in any suitable manner and by any suitable means to the rear of any barber's chair, and the construction and operation of the latter are well known, I do not consider it necessary to show or describe the chair in this application.

A is a metallic box adapted, by the dependent lugs B, to be attached to any suitable portion of the rear of the barber's chair, in such relation to the rear portion of the usual tilt-

ing seat of the latter as that the throwing backward and downward of the rear of said seat will cause said seat to engage and press downward the pin F on lever C. The lever C is pivoted vertically at its inner end at some suitable point on the box A, and adapted to have a limited vertical oscillation by being projected through the vertical slot D, formed in one end of the box A, and provided at its free end with the pin F, aforesaid.

E is a star-wheel rigidly seated on its axle E', the latter being suitably journaled in transverse horizontal plates G—G within the box A, the plates G having a suitable interval between them, within which interval the wheel E is seated. At a suitable point on the lever C there is suspended a dependent pawl H in such position as, in the downward oscillation of said lever, to engage one of the points of the star-wheel E, and rotate said wheel and its axle E' one-tenth of a revolution.

J, K, L, are, respectively, star-wheels, journaled parallel with the wheel E, and in like manner as the latter, and the spurs on each of said wheels, including the wheel E, extending slightly beyond the adjacent star-wheels.

On one face of each of the said star-wheels, except wheel L, there is formed a short stud M, adapted to engage successively the arms of the adjacent star-wheel at each rotation of the actuating wheel; that is to say, that at each entire revolution of the wheel E the stud M thereon will engage one of the arms of wheel J, and rotate the latter one-tenth of a revolution. The wheel J, in a like manner and degree, will rotate wheel K, and the latter performs the same office for wheel L. Therefore, the wheel L will have one revolution to ten revolutions of the wheel K, the latter one revolution to ten of the wheel J, and the wheel J one revolution to ten of the wheel E.

On the rear end of each of the axles E', J', K', and L', of said star-wheels, respectively, there is rigidly seated a disk N, provided with a circular series of figures from 0 to 9.

As the alternate wheels rotate in opposite directions, the numbers on their faces are arranged in opposite directions so that as each wheel is rotated in its respective direction, the numbers will consecutively advance from

0 to 9, and thereby register the correct number of times that the lever C has been operated.

In the rear side of box A, in the line of the orbital movement of said circular series of numerals, respectively, are formed the visual openings 1, 2, 3, and 4, of only sufficient size to permit the presentation of one numeral at a time at each opening.

On the front end of each of the axles of the star-wheels aforesaid, there is rigidly seated a thumb-piece P, by means of which each star-wheel, and its attendant disks, can be rotated to be set for operation, as hereinafter described.

Between each of the thumb-pieces P and the adjacent plate G, there is seated around each of the axles of said star-wheels a circular spring washer R, which serves to tighten, respectively, the axles of said wheels against their journal bearings, so as to prevent the casual displacement of said registering disks from any jar or movement of the chair.

The front side of the box A is formed into a door W, hinged at one end at S, opening under the seat of the chair, and provided with a suitable lock T at the other end, by means of which access to the said registering disks can be had only by the person in possession of the key of said lock.

The operation of my invention is as follows:—The tilting back of the upper portion of the barber's chair for the purpose of shaving the occupant, engages the pin F of the lever C, thereby forcing said lever downward, and by the engagement of the pawl H with one of the points of the star-wheel E, rotate the latter one-tenth of a revolution. Said wheel, having been set with the cipher of its disk opposite the opening 4, the movement last aforesaid brings the numeral 1 behind said opening. The complete rotation of wheel E will, by the engagement of its stud M on one of the spurs of the wheel J, impart one-tenth of a revolution to the latter, and bring the numeral 1 on the disk of wheel J opposite the opening 3, and in like manner the wheel J op-

erates upon the wheel K, and the latter upon the wheel L. Therefore, the disk in front of the opening 4 indicates the number of shaves had upon said chair to the number 9, when the next succeeding impulse given to wheel E registers 1 on the wheel J, and 0 on the wheel E which means ten shaves, and the complete rotation of the wheel J registers 1 on the disk of star-wheel K, which indicates one hundred shaves, and one-tenth rotation of wheel L indicates one thousand; and in like manner any farther rotation of any of said wheels will be shown by the indicating figures thereon presented to their respective openings in box A. The disks, by means of the thumb-pieces P, can all be set at 0 as often as may be desired, and all of said disks are so set when the registry first begins.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is—

In a registering attachment for barbers' chairs, in combination, a box, the front face of which is provided with visual openings and one end is slotted and the lid is hinged and adapted to be secured to the chair, two plates within the box having a suitable interval between them, shafts journaled in the plates, a registering disk upon the end of each of the shafts adjacent to the visual openings, and a head upon the other end, a circular spring washer between each head and the adjacent plate, a spur wheel upon each shaft between the plates, a pin upon each wheel except the last one, a lever pivotally secured to one of the plates at one end and having its other end projecting through the slot in the box and provided with a pin for engaging with the chair, and a lock for securing the lid of the box, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN ED. MAMMEN.

Witnesses:

JOHN G. MANAHAN,
H. C. WARD.