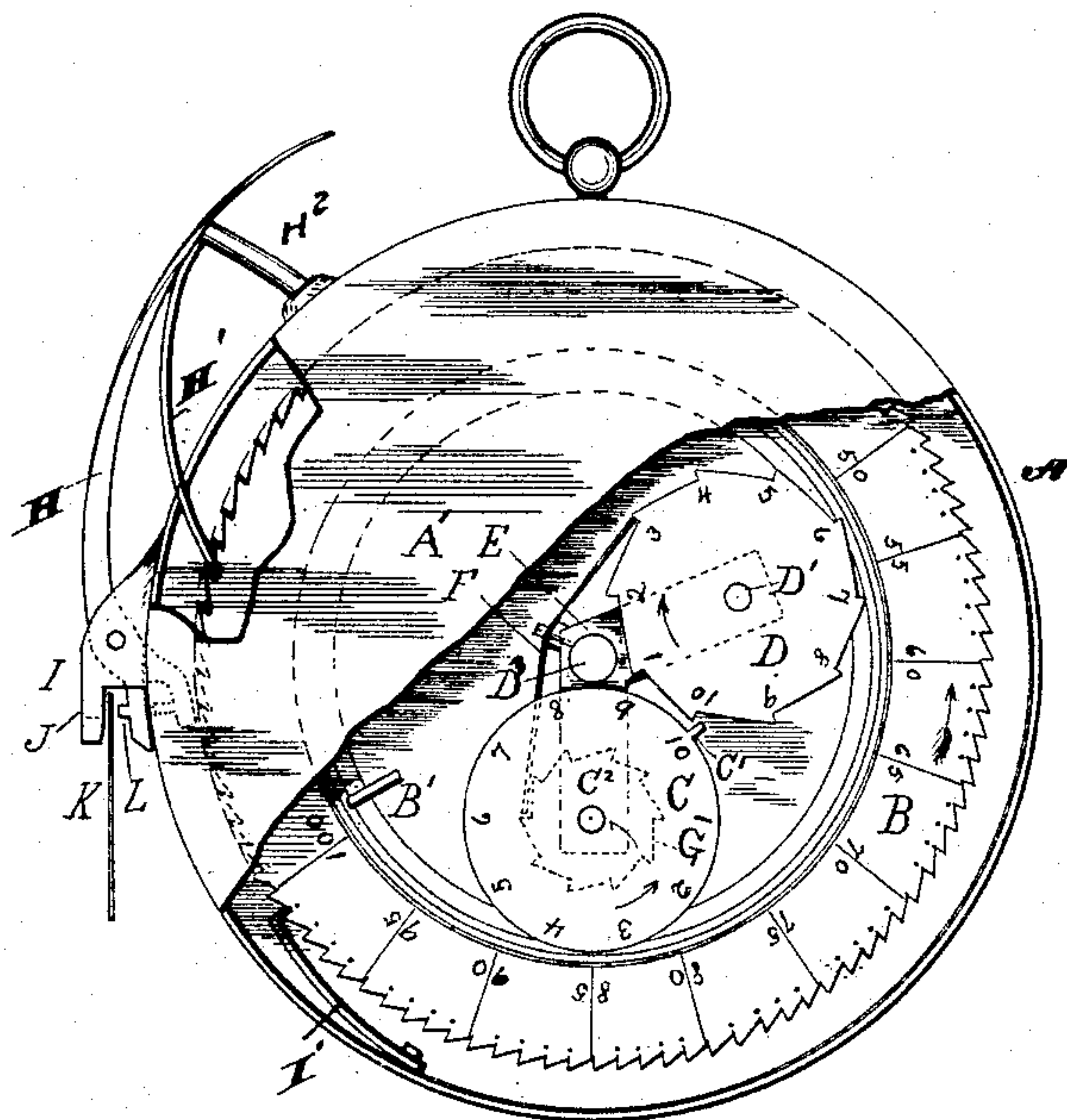


(No Model.)

H. R. COFFEY.
FARE REGISTER.

No. 410,578.

Patented Sept. 10, 1889.



Witnesses.
Elihu B. Stowe,
James T. Summerville

Inventor.
Henry R. Coffey,
By Joshua B. Webster Atty.

UNITED STATES PATENT OFFICE.

HENRY R. COFFEY, OF STOCKTON, CALIFORNIA.

FARE-REGISTER.

SPECIFICATION forming part of Letters Patent No. 410,578, dated September 10, 1889.

Application filed October 15, 1888. Serial No. 288,168. (No model.)

To all whom it may concern:

Be it known that I, HENRY R. COFFEY, a citizen of the United States, residing at Stockton, in the county of San Joaquin and State of California, have invented certain new and useful Improvements in Fare-Registers; 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 drawing, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to a fare-register, and is designed as an improvement upon the devices shown and described in the Letters Patent granted to me June 12, 1888, and numbered 384,425.

The novelty will be fully understood from the accompanying drawing, when taken in connection with the specification and claim.

Reference is had to the accompanying drawing, in which the figure is a face view of my improved fare-register with a part of the cover broken off.

The case A is preferably circular in form and provided with a cover A'. Inside of this case is a central fixed post D³, which is the arbor of a dished disk or wheel B, having an annular toothed rim provided with one hundred teeth equidistant from each other. The face of this rim is worked off in twenty divisions, (but ten being shown,) and each division is subdivided into five points, corresponding to the number of teeth between the divisions. Consequently a movement of the disk equal to the space of one tooth on its periphery indicates one fare. In the dished or depressed portion of said disk B is a circular disk C, having a ratchet G beneath it, and on its face are figures from 1 to 10, indicating hundreds. The operating-lever H is provided with a spring-pawl H', which engages with the teeth of the disk B, so that when said lever is depressed the wheel B will be moved about its axis the distance of one tooth, indicating one fare. The hooked spring-arm I' prevents any retrograde movement of the disk B. These devices, together with a

segmental bell-actuating push-rod H², are fully shown and described in my Letters Patent, numbered 384,250, of 1888, and are not herein claimed broadly.

This describes my general plan of indicating the condition of the register prior to my present improvement.

My first improvement, which is to lessen the liability of fraud on the part of the operator, consists in the addition of a toothed disk D, the inner end of the post D' forming its arbor, the disks C and D both being attached at the ends of an arm E, secured at its elbow to the head of the post D³ by a set-screw. There are ten teeth upon the disk D, numbered from 1 to 10 and indicating the thousands. A spring-arm F is attached at its elbow to the elbow of the arm E in any desired manner, and strikes at one end upon the teeth of the ratchet G and at the other end upon the teeth of the disk D.

If preferred, there may be used beneath the disk D a ratchet similar to the one beneath the disk C, in which case the spring F would strike upon its teeth, instead of as above shown.

A lug C' on the face of the disk C strikes upon the teeth of the disk D, and upon the face of the flange B is a lug B', which strikes upon the teeth of the ratchet G.

Heretofore in my register, as previously patented, the fares may be run up from one to one thousand in seven minutes. By the device hereinbefore described it will require seventy minutes. For illustration: If the register be set at a certain number of fares—say three hundred and sixty—and one hundred fares have been freshly taken and the operator desires to steal fifty, he must strike the lever H and ring or indicate nine thousand nine hundred and fifty fares, occupying seventy minutes, as the numbers of the disk D indicate ten thousand, those of the disk C one thousand, and those of the flange B one hundred, thereby consuming so much time as to place himself in danger of being detected. The flange B will have made a complete revolution at the ringing up of one hundred fares, the disk C at the ringing up of one thousand fares, and the disk D at the ringing up of ten

thousand fares—that is to say, each time the
lug B' passes a tooth of the ratchet G it indi-
cates one hundred fares, and each time the
lug C' on disk C passes a tooth of the disk D
5 it indicates one thousand fares.

The spring-arm F holds the disks C and D
in proper positions until the lugs B' and C'
arrive at the above-described respective points
of impingement, all being operated regularly
10 by the suitable connecting mechanism of the
lever H, which latter is utilized for the pur-
pose of a collateral ticket-punching device,
consisting of a punch L on the foot of the
lever H, which is pivotally mounted within a
15 housing I, which is attached to the rim of the
case and has in its head a socket J for the
reception of the punch L after it passes
through the intermediate fare-registering
card K.

20 In the drawing I have shown the foot of
the lever H outside the case. If preferred, it
may occupy a position within the case below

the housing, which position I have indicated
by dotted lines on the drawing.

The cap A' may be hinged to the case A, 25
or simply act as a detachable cover.

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

A fare-register comprising the case A, the
dished toothed wheel B, provided with a fixed 30
arbor D³ and a pin B', an angular-shaped
elbow-support E, rigidly fixed to the said ar-
bor, the wheels C and D, provided with their
ratchet-teeth, journaled on studs fixed to
elbow E, the angular spring F, fixed to said 35
elbow, and the striking-pin C', adapted to en-
gage the wheel C with the wheel D, all sub-
stantially as specified.

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

HENRY R. COFFEY.

Witnesses:

JOSHUA B. WEBSTER,
JAS. T. SUMMERVILLE.