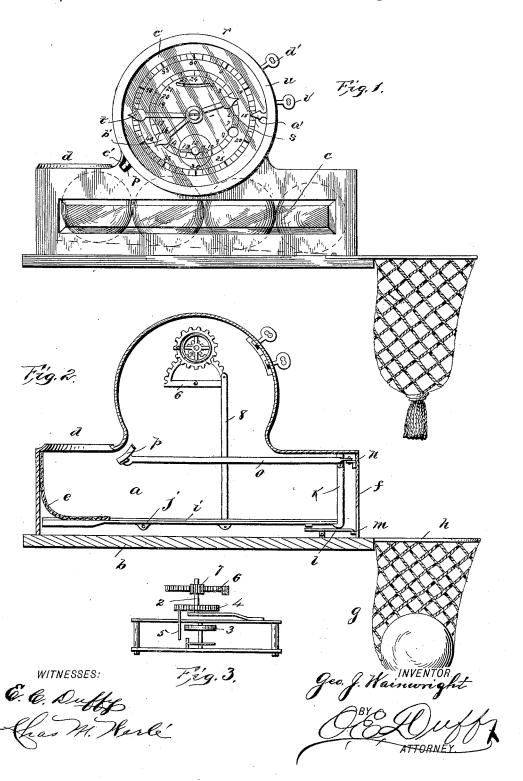
G. J. WAINWRIGHT. BILLIARD TIME REGISTER.

No. 524,124.

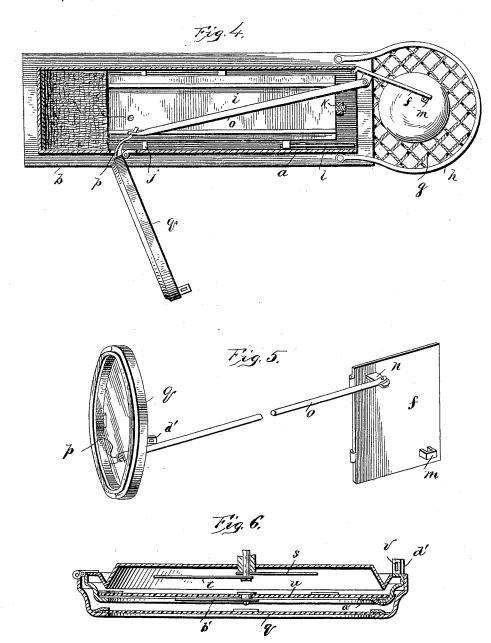
Patented Aug. 7, 1894.



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WITNESSES: E. C. Duffy Lar. M. Werle'

UNITED STATES PATENT OFFICE.

GEORGE J. WAINWRIGHT, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO WALTER J. WAINWRIGHT, OF SAME PLACE.

BILLIARD TIME-REGISTER.

SPECIFICATION forming part of Letters Patent No. 524,124, dated August 7,1894.

Application filed January 31, 1894. Serial No. 498,603. (No model.)

To all whom it may concern:

Be it known that I, GEORGE J. WAIN-WRIGHT, of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Billiard Time-Registers; and I do hereby de-clare that the following is a full, clear, and exact description of the invention, which 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 and figures of reference marked thereon, which form part of this specification.

This invention relates to certain improve-15 ments in registers and more particularly to improvements in time recorders for billiard

games or tables.

It is customary in conducting billiard rooms to charge players a certain sum for such a 20 period of time, as so much an hour for the use of a table, &c.

It is the object of this invention to provide an improved mechanism exceedingly cheap, simple and durable in construction, and com-25 posed of a minimum number of parts, and which will accurately register the length of time intervening between the times of removing the balls and replacing them in their case.

A further object of the invention is to pro-30 vide a billiard ball case provided with the twenty-four hour clock having adjustable indicating means and wherein suitable mechanism is provided operated by the balls in the case to stop and start the clock mechanism.

A further object of the invention is to provide certain improvements in details of constructions, and arrangements of parts whereby an improved and effective register is pro-

vided for the purpose intended.

Referring to the accompanying drawings: Figure 1, is a front elevation of the improved billiard ball case with its registering mechanism. Fig. 2, is a vertical longitudinal sectional view through the case and the rear portion of the clock; the clock works not being shown. Fig. 3, is a horizontal sectional

view through the case proper for the balls. Fig. 4, is a detail top plan view of the starting and stopping mechanism for the clock

the door of the billiard case and one of the doors of the clock dial, showing the connections between the same. Fig. 6, is a sectional view.

In the drawings the reference letter a, in- 55dicates a case horizontally arranged and formed to preferably receive four billiard balls. This case is secured to a suitable base b, and is strongly constructed and provided with a transparent panel or front c, so that the 60 number of balls in the case can be seen without opening the case. At the upper side of one end, this case is provided with the inlet opening d, of a size to receive one billiard ball at a time. This opening is so arranged 65 that the billiard balls cannot be withdrawn from the case therethrough. Beneath this opening the case can be provided with suitable cushioning devices or material e, to prevent noise or injury to the balls when they 70 are dropped into the case. The opposite end of the case has the inlet opening controlled by the hinged door f.

The base b, or the case is provided with a suitable bag g, supported by the frame h, with 75 its opening end beneath the said inlet opening from the case so that when the door f, is open the balls will roll from the case into said bag and will be caught thereby and injury thereto avoided. A tilting platform i, 80 is longitudinally arranged in the lower portion of said case to receive and support the balls. This platform is pivoted near one end at j, so as to swing vertically and the short end of the platform is located beneath the 85 inlet opening d, in the case and is so weighted, or the platform is otherwise controlled, so that it will require three balls to depress the long end of the platform. This arrangement is provided so that the platform will return 90 to its normal position even though one ball remains on the long end thereof and whereby the removal of three balls from the case will start the clock mechanism so that either three balls or four balls can be employed in the 95 game.

It will be observed that the platform is normally inclined toward the door f.

A vertically disposed gravity latch k, is 50 works. Fig. 5, is a detail perspective view of | pivoted at its upper end to the upper portion 100

of the case so that its lower hooked end can | moved around the hour scale. The outer door catch beneath the free end of the platform and hold the same in its normal position. This latch swings outwardly, and is located 5 in the path of the balls so that when the balls roll down the platform, the first ball will engage said latch and force it outwardly to the door f, and thereby release the platform so that it can be depressed by the weight of the 10 balls. When the balls roll out of the case they lift the latch out of the way and when the platform is free from the weight of the balls the latch automatically locks the platform. This lock is provided to prevent tampering 15 with the platform or depress the same to stop the clock mechanism hereinafter described without the employment of the balls. An automatic lock is also provided for the door f, so that the said door cannot be opened when 20 the platform i, is in its normal position and

when there is not a sufficient number of balls in the case to play a game. This lock is provided to prevent tampering or fraudulent adjustment of the parts to cheat the proprietor. This lock consists of the vertical swinging latch l, pivoted between its ends to the floor of the case beneath the free end of the swinging platform. This latch has a hooked outer

end arranged to enter the eye or staple m, on 30 the inner side of the door f, and the inner free end of the latch, or of platform, is provided with the projection so that when the platform drops by reason of the balls thereon the inner end of said latch is depressed,

35 thereby releasing the hooked end from the staple m, and releasing the door from said lock. Thus when the case is filled with balls the latch l, is disengaged.

i', indicates a suitable clock mechanism 40 mounted in any desired manner on the ball case or the ball case can be enlarged upwardly and centrally to receive the clock mechanism. This clock is provided with a twenty four hour dial, that is a minute scale is provided from one 45 to sixty; and a concentric hour scale is pro-

vided from one to twenty four, and an hour hands, makes a complete revolution in twenty four hours.

t, is a minute hand.

The door u, is provided to close the clock face and this door can be provided with suitable lock and key v, so that the proprietor after setting the hands of the clock, can lock the door thereof, having the glass front, and 55 remove the key and hence prevent tampering with the hands of the clock. This door has its edge so formed as to receive a pointer a', and permit the pointer to slide around the edge of the cover by having the base of the 60 pointer curved to embrace the bead surrounding the glass front. This pointer constitutes the minute indicator and travels over the minute scale of the clock dial. This door is also provided with a movable hour indicator 6: b', composed of the hand or finger on the outer face of the glass front journaled in the center of the glass front so that the finger can be I clock at the time the balls are released and

q', with the glass front is located over the said door u, and is suitably hinged and provided 70

with a lock and key d'.

The game attendant should be provided with a key to open this outer door so that he can set the indicator hands to indicate the time that the game commenced. This outer 75 door is provided with the rigid curved arm p, extending inwardly through an aperture e'in the case front and located at the hinged side of the door. This arm p, is loosely connected by the link o, arranged longitudinally 80 in the upper portion of the case, to an inwardly extending rigid arm n, from the door This arrangement is such that the outer door of the clock controls the outlet door f, of the ball case so that the attendant in order to 85 get the balls from the case must open the outer clock door which operation swings open the door f, providing the case contains sufficient number of balls to release the latch l.

It should be observed that the doors f and go q', are so connected as to open and close to-

gether.

As before described suitable mechanism is provided to stop the clock when the case contains sufficient number of balls for the game 95 and to start the clock when these balls are removed from the case. This mechanism preferably consists of the horizontal shaft 2, journaled in the case to the rear of and eccentrically to the fly wheel or escapement 3, 100 of the clock mechanism. This shaft is provided with a suitable support 4, carrying a spring arm 5, extending over the periphery of the fly wheel 3, so that when said shaft 2, is rotated to the right; the spring arm 5, will be 105 drawn into contact with the periphery of the wheel 3, and will thereby stop the clock by holding and wedging against the fly wheel. When the shaft 2, is revolved in the opposite direction the arm 5, will release the fly wheel 110 and give it a sliding, twisting and starting movement. This is accomplished by the eccentric mounting of the shaft 2, in relation to the shaft and fly wheel.

Suitable connections are provided between 115 the platform and said shaft 2, to operate the shaft to stop the clock when the platform is lowered and release the clock when the platform is raised. This mechanism preferably consists of the toothed segment 6, meshing 120 with the pinion 7, on the shaft 2, and connected by the link 8, with the free end of the platform. At the beginning of the day the proprietor sets the hands of the clock at zero that is 24 and 60 and locks up the inner door. 125 The case being full of balls the clock is of course out of gear and not running. When it is desired to remove the balls for the game the attendant unlocks the outer door of the clock which operation opens door f, of the 130 case and the balls drop out into the bag g. He then moves the minute indicator a', to a point occupied by the minute hand of the

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the hour indicator b', to the point occupied I door when the platform is in its normal eleby the hour hand of the clock at that time. The outer door of the clock is then closed and locked, leaving a permanent record of the 5 time that the game commenced, while the clock is started running at the time the balls were removed, so that the time is counted up against the players.

When the game is finished, the players, of 10 course, wish to notify the attendant of the fact, but should the attendant be engaged at another table at that time the players can on their own account drop the balls into the case

and the clock is then stopped.

The attendant when disengaged naturally looks on the table and sees that the balls are missing. He then looks in the case and sees, at a glance, the balls there and in safe keeping, and also has an accurate and wholly re-20 liable record of the time charged against the players.

At the end of the day, or twenty-four hours, the proprietor has an accurate register of the time that the balls have been in use and the 25 time for which he should receive rent. check is thus provided against dishonest attendants as well as dishonest players.

Many details of construction have been minutely described herein for the sake of clear-30 ness, but I do not wish to limit myself to any

such specific constructions.

It is evident that various changes might be made in the forms, arrangements and constructions of parts described without depart-35 ing from the spirit and scope of my invention, hence I do not wish to limit myself to the exact construction herein set forth, but consider myself entitled to all such changes as fall within the spirit and scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is-

1. A billiard ball case having a clock provided with hour and minute indicators, substantially as described, and provided with ball inlet and outlet openings, and means arranged in the path of the balls between said openings, and operated by the balls and controlling the clock to stop the clock while there 50 are sufficient balls in the case for a game and to start the clock when the balls are removed, substantially as described.

2. The case having the vertically movable platform arranged to support and be moved 55 by the balls, substantially as described, in combination with a clock having indicating pointers, and controlling mechanism con-nected with and actuated by said platform and controlling the clock by locking the clock 60 movement when the platform is depressed and starting the clock when the platform is released, substantially as described.

3. A billiard ball case having the swinging platform to receive the balls, and an inlet 65 opening for the balls, an outlet opening at one end of the case provided with a closing vated position and arranged to be released from the door by the descent of said platform 70 under the weight of the balls, substantially as described.

4. A billiard ball case having an inlet opening for the balls, a swinging platform in the case to receive the balls, an outlet opening 75 from the case at one end of the platform provided with a door, and a latch arranged to uphold said platform in its normal position when the balls have been removed from the case, said latch being arranged in the path of the 80 balls so as to be automatically released by the balls, substantially as described.

5. The billiard ball receptacle having the discharge opening at one end controlled by a door, and the flexible bag supported with its 85 open end at said opening to receive the balls as they drop therefrom, substantially as de-

scribed.

6. The billiard case having the clock, a swinging platform permanently arranged in 90 the case to receive the balls, the case having an inlet to and egress passage from said platform and a shaft connected with and controlled by said platform and having an arm arranged to engage the escapement fly wheel 95 to lock the same or to move out of engagement and start the clock, substantially as de-

7. The combination of the case having the swinging platform, the clock mechanism, a roc pinion mounted in the case eccentrically to a moving wheel of the clock and provided with a projection to move into and out of engagement with said wheel to lock or release the same, a toothed segment meshing with said 105 pinion, and a connection therefrom to the platform, substantially as described.

8. The case having an outlet controlled by a door, a clock carried by the case, and a door of the clock face connected to and moving 110 with said outlet door, substantially as de-

scribed.

9. The billiard ball case having the billiard ball passage therethrough provided with a pivoted balanced floor or platform forming a 115 permanent part thereof and arranged to be depressed by the proper number of balls, and a time registering mechanism connected with and controlled by said floor, substantially as described.

10. A time register having a door to cover its dial face, an indicator finger movable by hand and arranged on the exterior of said door and having a holder embracing and slidable on the rim of the door, and another mov- 125 able indicator finger on the exterior of the door and mounted thereon opposite the center of the dial, substantially as described.

11. A time registering mechanism, in combination with a case having a ball passage 130 therethrough, a brake mechanism for said time register controlled by the balls in the passage, and a door closing the discharge end door, and a latch to automatically lock said of the passage, substantially as described.

12. The billiard ball case having a billiard ball passage therethrough provided with a top inlet opening so that the balls cannot be removed therefrom, and with a door for its discharge opening provided with a lock controlled by the balls in the passage, substantially as described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

GEO. J. WAINWRIGHT.

Witnesses:

ROBERT T. BROWN,

I. MALLAET.