No. 680,562. Patented Aug. 13, 1901.

H. H. BREEDEN.

REGISTER.

(Application filed Apr. 5, 1901.)

(No Model.) 3 Sheets—Sheet 1.

Fig. 2.

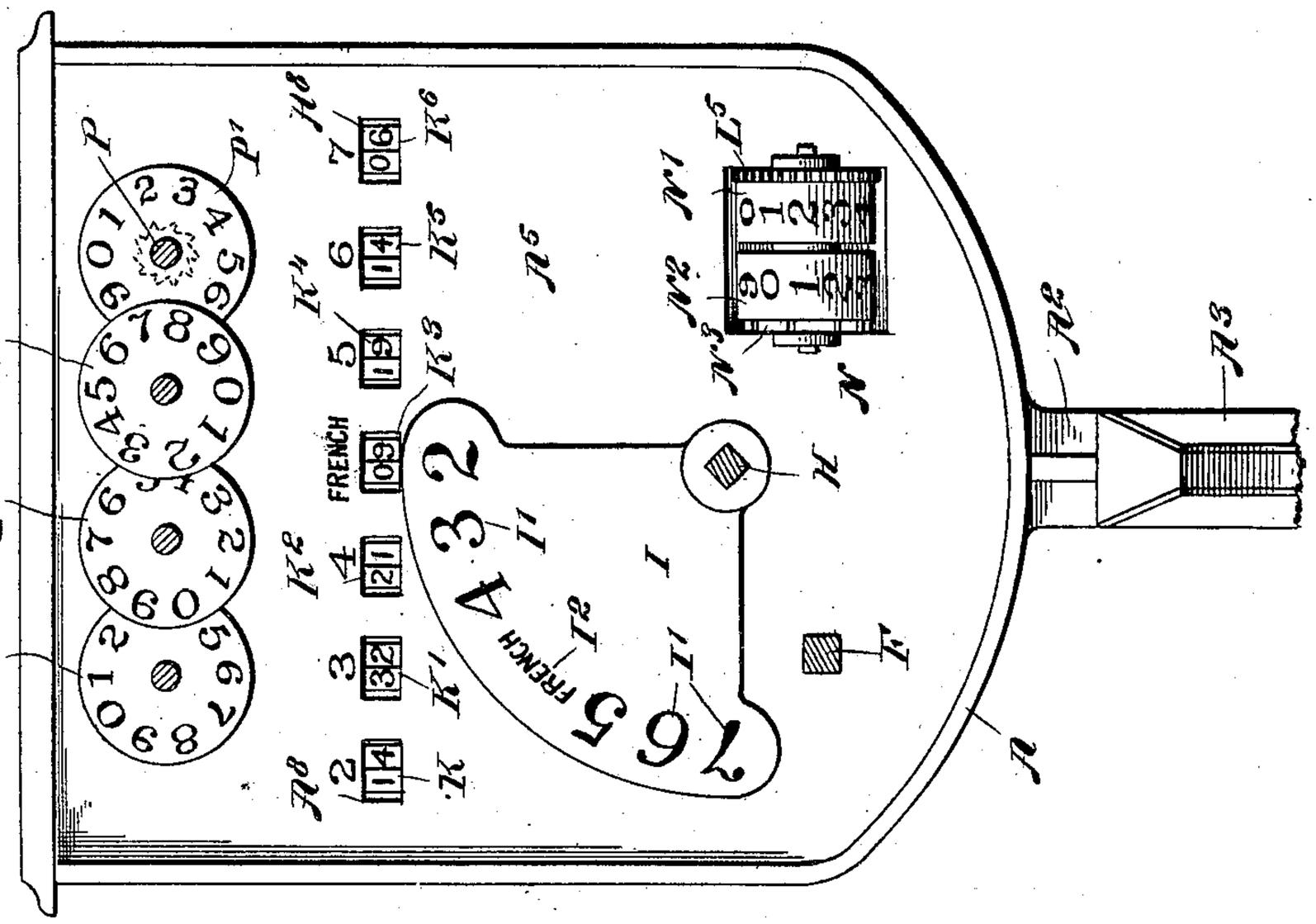

Fig. 1.

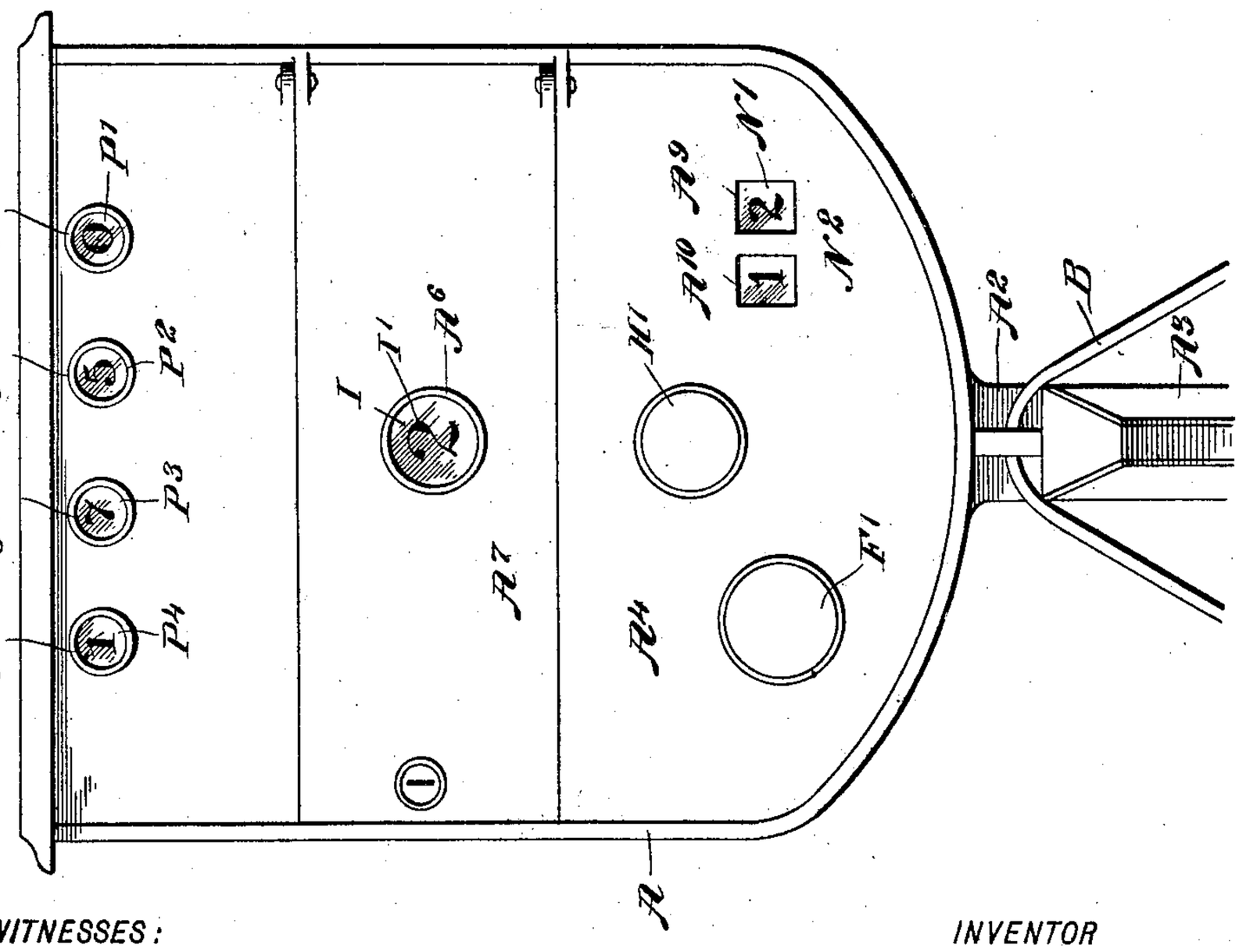

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Fig. 4.

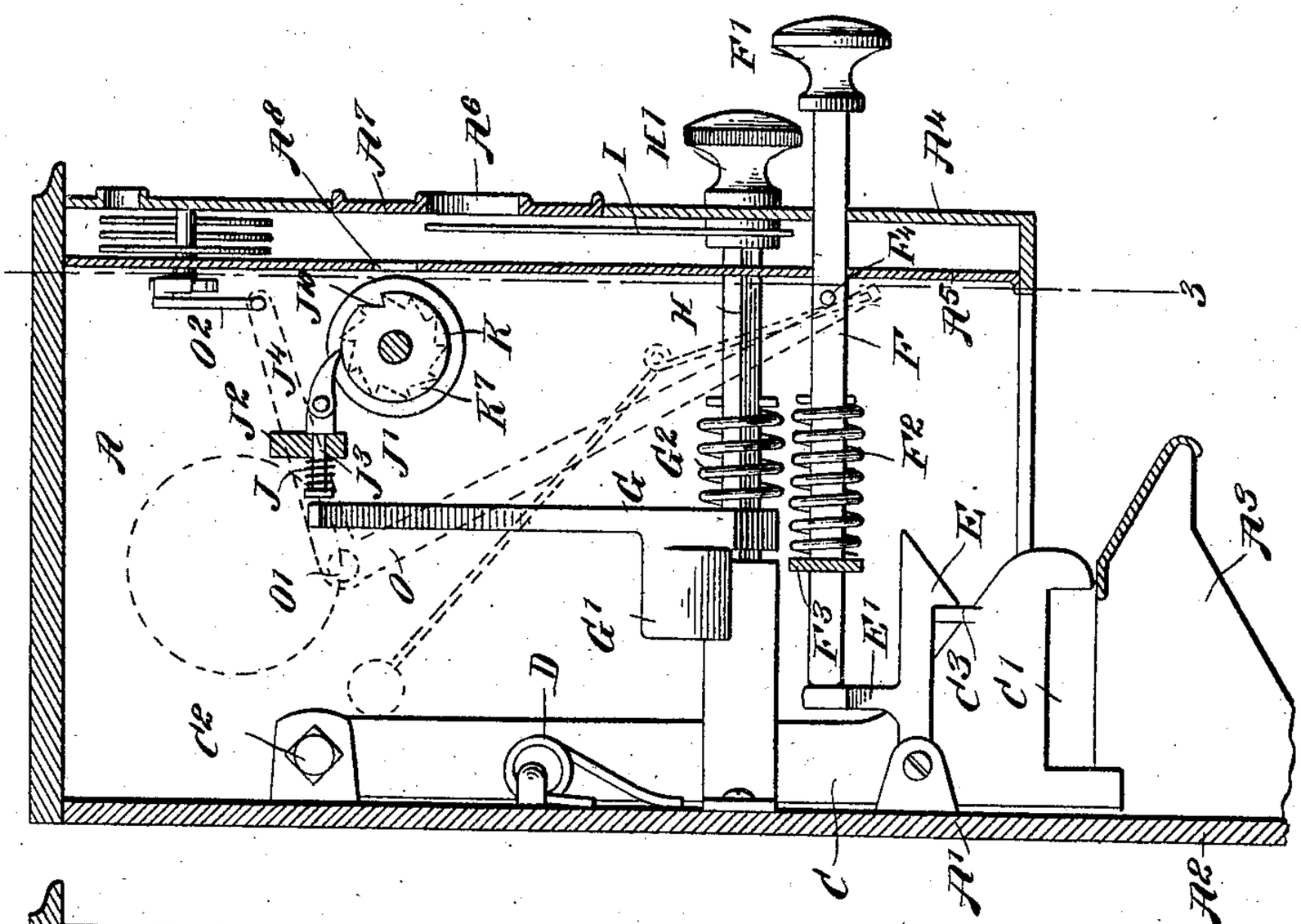

Fig. 3.

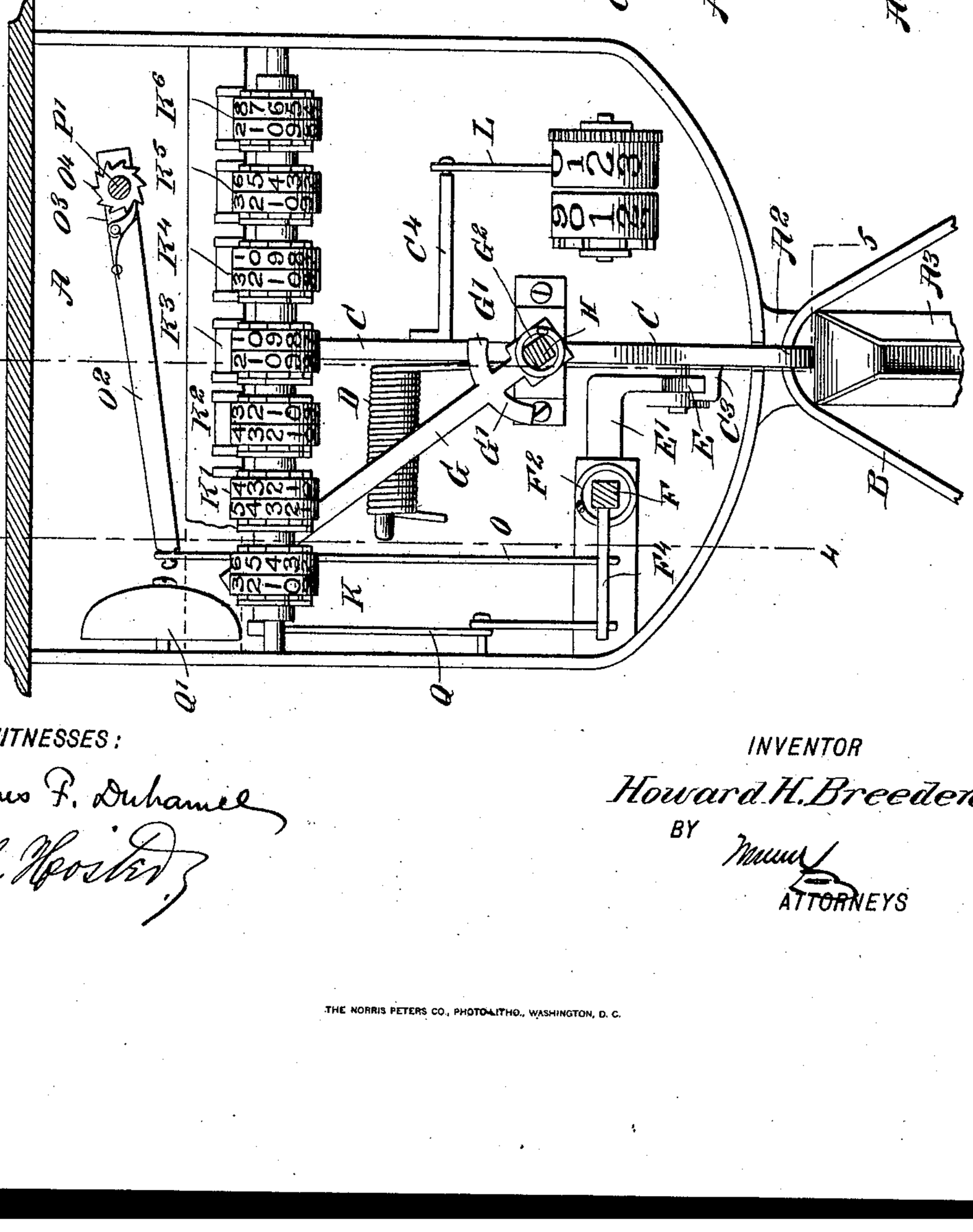

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Fig. 6.

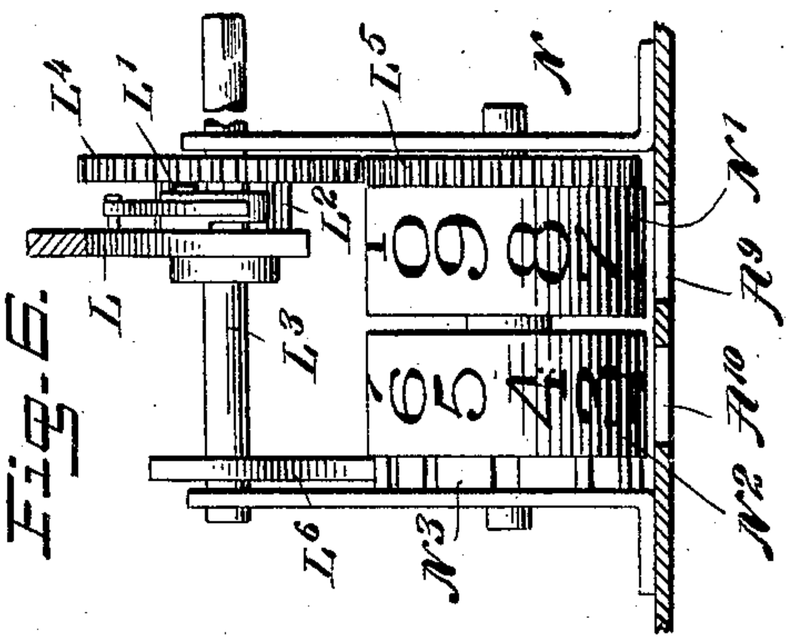


Fig. 7.

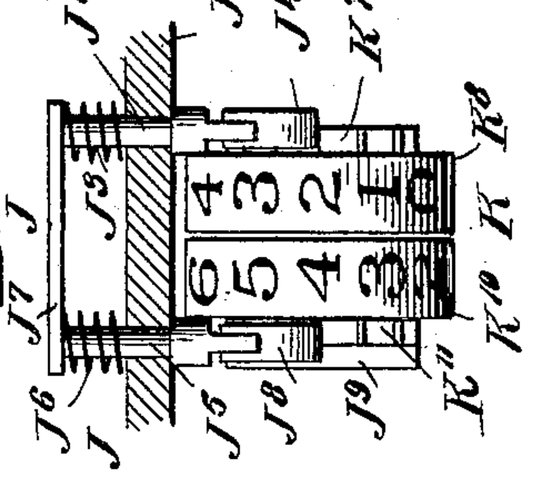
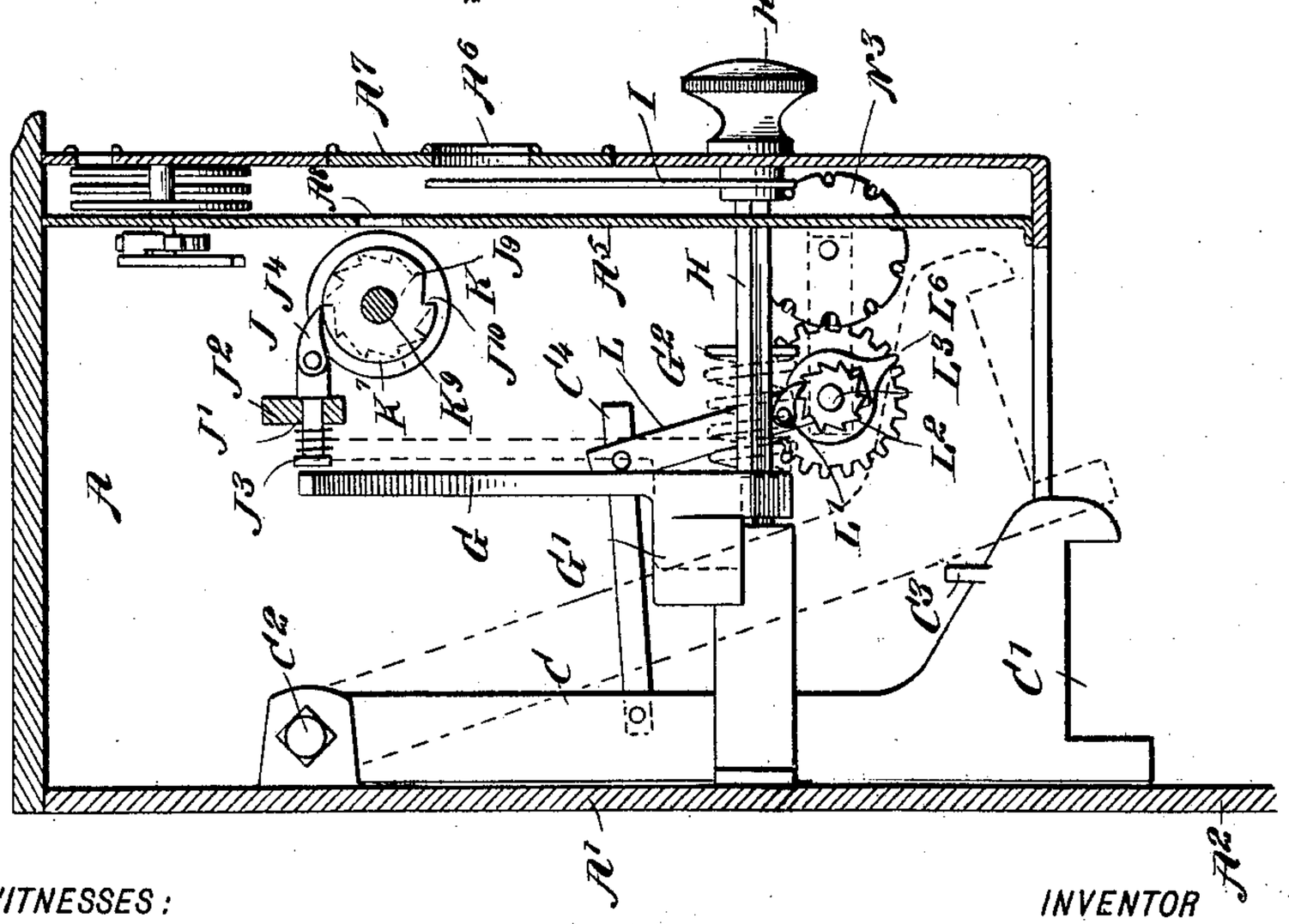


Fig. 5.



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UNITED STATES PATENT OFFICE.

HOWARD H. BREEDEN, OF MILLVILLE, NEW JERSEY, ASSIGNOR OF ONE-THIRD TO CHARLES B. NEAL, OF SAME PLACE.

REGISTER.

SPECIFICATION forming part of Letters Patent No. 680,562, dated August 13, 1901.

Application filed April 5, 1901. Serial No. 54,461. (No model.)

To all whom it may concern:

Be it known that I, HOWARD H. BREEDEN, a citizen of the United States, and a resident of Millville, in the county of Cumberland and State of New Jersey, have invented a new and Improved Register for Pool-Rooms, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved pool-room register arranged to enable the proprietor to control the number of players at a table, the number of games played by various parties, and to give the total of the day's games and a grand total of the games for a given period.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a front elevation of the improvement. Fig. 2 is a like view of the same with the casing-front removed. Fig. 3 is a sectional front view of the same on the line 3 3 in Fig. 4. Fig. 4 is a transverse section of the improvement on the line 4 4 in Fig. 3. Fig. 5 is a similar view of the same on the line 5 5 in Fig. 3. Fig. 6 is an enlarged plan view, with parts in section, of the registering device indicating the number of games played by one party; and Fig. 7 is a similar view of part of the registering device for registering the total games played during the day.

The improved register is mounted in a suitably-constructed casing A, adapted to be fastened to a wall or other support and formed on the lower end of its back A′ with an extension A^2, provided with a forwardly-extending support A^3 for supporting the triangle B of the pool-table, as is plainly shown in Figs. 1 and 3. The top of the triangle B is engaged by a notch C′ in the lower or free end of a lever C, extending upwardly through a slot in the bottom of the casing A and pivoted at its upper end at C^2 to the back A′ of the casing A. When the lever C is in a released position and engages the triangle B, then the latter is locked by said lever in position on the support A^3, said lever being pressed on by a spring D, so as to move the lever forward, when said lever is released by the releasing device presently to be described in detail.

On the free end of the lever C is arranged an upwardly-projecting lug C^3, adapted to be engaged by a catch E, fulcrumed at its rear end on the back A′ and provided with an upwardly-extending lug E′, adapted to be engaged by a bolt F, mounted to slide transversely in suitable bearings in the front A^4 of the casing A and in a partition A^5, arranged in the rear of the front A^4 and somewhat spaced therefrom, as is plainly shown in Figs. 2, 4, and 5. On the outer end of the bolt F is formed a knob F′, adapted to be pressed by an attendant, and on said bolt F is coiled a spring F^2, secured at one end to the bolt and at the other end to a fixed part F^3 in the casing to normally hold the bolt F in an outermost position, as shown in Fig. 4, the inner end of the bolt then resting against the lug E′. When the knob F′ is pressed, an upward-swinging movement is given to the catch E, so as to disengage the latter from the lug C^3, and thereby release the lever to allow the same to swing forward by the action of its spring D to release and unlock the triangle B, so that the latter can now be lifted from its support A^3 and used on the pool-table for setting up the pool-balls in the usual manner.

When the lever C is released and swings forward, as described, it moves in engagement with a segmental projection G′ on an arm G, mounted to slide on and to turn with a spindle H, held to turn in suitable bearings on the casing A, the outer end of the spindle H being provided with a knob H′, adapted to be taken hold of by the operator for turning the spindle to impart a swinging motion to the arm G.

On the spindle H, between the front A^4 and the partition A^5, is secured an indicator-plate I, provided on its face with consecutive numerals I′, arranged in the segment of a circle and adapted to be singly displayed through an opening A^6 in a door A^7, forming part of the front A^4 of the casing A. This door A^7 is provided with a suitable lock, the key of which is in the possession of the pro-

prietor to enable the latter to open said door from time to time for the purpose hereinafter more fully described.

A spring G^2 holds the arm G normally in a rearmost position on the spindle H, but allows the said arm to be pushed forward when the lever C is swung forward and presses on the segmental projection G'. As shown, the spindle H has its rear portion made polygonal, and a similar polygonal opening is formed in the arm G to allow of sliding the latter forward and backward on the spindle H and to turn the arm G with the spindle H when the latter is turned by the operator manipulating the knob H'.

As indicated in Fig. 2, the indicator-plate I is also provided with the word "French" between the consecutive numerals 4 and 5, and this word "French" also appears in the opening A^6 when the knob H' is turned correspondingly to indicate that the game to be played is what is called the "French" game. The numerals I' indicate the number of persons engaged at the time in playing a game of pool—that is, if four persons play pool at a table the attendant turns the knob H' until the numeral "4" is displayed in the opening A^6. The free end of the arm G is adapted to move to the rear of a plurality of actuating devices J for sets of numeral-wheels K K' K^2 K^3 K^4 K^5 K^6 adapted to register the number of games played by the persons, each set of numeral-wheels operating in conjunction with the numerals I', displayed on the indicator-plate I—that is, when the knob H' is turned and the numeral—"say 4"—of the indicator-plate I appears in the opening A^6, then the arm G is at the rear of the actuating device J for the set of numerals K^2, which indicates the number of games played when four persons are playing a game of pool. Thus if the knob H' is turned to display the word "French" in the opening A^6, then the arm G is at the rear of the actuating device J for the numeral-wheel K^3, indicating that the game played by the party is the French game. The actuating device J for each set of numeral-wheels K K' K^2 K^3 K^4 K^5 K^6 consists of a pin J', mounted to slide in a bearing J^2, forming part of the casing A, and said pin J' is normally held in a rearmost position by a spring J^3, (see Fig. 7,) and on the front of said pin J' is held a pawl J^4, engaging a ratchet-wheel K^7, secured on the units-wheel K^8 of the corresponding set of numeral-wheels. A similar pin J^5 is mounted to slide in the bearing J^2 and is pressed on by a spring J^6 and connected by a cross-bar J^7 with the pin J', and said cross-bar J^7 is engaged by the free end of the arm G when the latter is pressed forward by the action of the spring-propelled lever C. On the front of the pin J^5 is arranged a pawl J^8, riding on a disk J^9, having a single notch J^{10}, (see Figs. 4 and 5,) said disk being secured on the shaft K^9, carrying the ratchet-wheel K^7 and the units-wheel K^8. The tens-wheel K^{10} is loosely mounted on the shaft K^9 and is provided with a ratchet-wheel K^{11}, adapted to be engaged by the pawl J^8 when the latter drops into the notch J^{10}. The ratchet-wheels K^7 and K^{11} have ten teeth each, and the notch J^{10} is in alinement with the "0" on the units-wheel K^8, so that when the ratchet-wheel K^7 makes one complete revolution the pawl J^8 drops into the notch J^{10} and engages the corresponding tooth in the ratchet-wheel K^{11}, so as to turn the tens-wheel K^{10} with the units-wheel K^8 on the next forward movement of the cross-bar J^7 and the pins J' J^5.

On the lever C is secured an arm C^4, (see Fig. 3,) carrying at its outer end a lever L, supporting a spring-pressed pawl L', in mesh with a ratchet-wheel L^2, secured on a shaft L^3, journaled in suitable bearings carried by the main frame and forming part of the single set of numeral-wheels N for indicating the number of games played, say, during a day. On the shaft L^3 is secured a gear-wheel L^4, in mesh with a gear-wheel L^5, secured on the shaft of the units-wheel N', displaying the digits on its peripheral surface in consecutive order through an opening A^9 in the front A^4 of the casing A. The tens-wheel N^2 is loosely mounted on the shaft of the units-wheel and is provided with a notched wheel N^3, adapted to be engaged by a single tooth L^6, secured on the shaft L^3, so that when the latter makes one revolution the said single tooth turns the notched wheel N^3 and the tens-wheel N^2 at the time the units-wheel moves from "9" to "0." The digits of the tens-wheel N^2 are displayed through an opening A^{10}, formed in the front A^4 alongside the opening A^9, as is plainly shown in Figs. 1 and 6.

In order to give the grand total of the games played, I provide the following device: On the bolt F is secured a laterally-extending arm F^4, adapted to engage a bell-crank lever O, fulcrumed at O' within the casing A and engaging a lever O^2, mounted to turn loosely on the shaft P of a units-disk P', adapted to display its consecutive numerals through an opening A^{11} in the front A^4 of the casing A. A spring-pressed pawl O^3 on the lever O^2 engages the ratchet-wheel O^4 on the shaft P, so that when the bolt F is pressed rearwardly by the operator against the tension of its spring F^2 then the arm F^4 imparts a swinging motion to the bell-crank lever O, which in turn imparts a swinging motion to the lever O^2, so that the pawl O^3 turns the ratchet-wheel O^4 to rotate the shaft P and display the next consecutive number in the opening A^{11}. The numeral-disk P' is geared in a suitable manner with a tens-wheel P^2, and the latter is geared to a hundreds-wheel P^3, geared with a thousands-wheel P^4, displaying their numerals through openings A^{12}, A^{13}, and A^{14}, respectively, in the front A^4 of the casing A, as indicated in Fig. 1. For instance, as shown, the grand total of games registered is "1,750."

In order to give an alarm every time the bolt F is pressed and the triangle B is unlocked, the following device is provided: The arm F^4 is extended to reach and engage a striker Q for a bell Q', held within the casing, so that when the bolt F is pressed and released the striker Q is actuated to sound the bell Q'.

The operation is as follows: When a party desires to play pool, the attendant of the pool-table first counts the number of persons in the party and then turns the knob H' to display the corresponding numeral I' in the opening A^6, thereby swinging the arm G behind the actuating device J of the set of numeral-wheels K K' K^2 K^3 K^4 K^5 K^6, corresponding to the numeral I' displayed in the opening A^6. The attendant now presses on the knob F' and releases the lever C for unlocking the triangle B, which can now be removed from its support A^3 and used on the pool-table for setting up the pool-balls in the usual manner. When the lever C is released, it swings forward, and in doing so it strikes the segmental projection G' and presses the same forward against the tension of its spring G^2, thereby causing the arm G to actuate the device J, at the rear of which the arm G stands at the time, so that the units-wheel K^8 of the corresponding set of numeral-wheels K K' K^2 K^3 K^4 K^5 K^6 is turned to register the game to be played on the table by the party. At the same time the movement of the bolt F actuates the units-wheel P' of the grand-total register and moves said units-wheel forward to the next numeral. An alarm is given at the same time by the striker Q sounding the bell Q'. After the pool-balls have been set on the pool-table and the attendant has removed the triangle from the table he again slides it up on the front inclined portion of the front A^4 to engage the notch C' in the now forwardly-standing lever C and then presses the triangle rearwardly, so as to impart a rearward-swinging motion to the lever C to finally cause the catch E to engage the lug C^3 and lock the lever C in position against the tension of its spring D. When this takes place, the triangle B is locked in place on the support A^3 and cannot be removed again for another game until the bolt F is pressed, as above explained.

One end of the shaft L^3 for the units-wheels N' is made square to permit convenient application of a key inserted through an opening in the side of the casing to enable the operator to set the numeral-wheels N to zero after each party of players has finished playing. It is understood that the numeral-wheels K K' K^2 K^3 K^4 K^5 K^6 are not visible from the outside and their numerals can only be read through the openings A^8 in the partition A^5 after the door A^7 is opened.

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

1. A pool-room register, comprising a locking-lever for locking the triangle of the pool-table in place on the register, a push-bar for releasing said lever, and numeral-wheels adapted to be actuated from said lever, to indicate the number of games played by a party of players, as set forth.

2. A pool-room register, comprising a locking device for locking the triangle of the pool-table in place on the register, a manually-actuated releasing device for said locking device, a plurality of sets of numeral-wheels, a manually-controlled indicator, for indicating the number of players in the game, and an arm moving with the indicator and adapted to be actuated by said locking device when released, to actuate a corresponding set of numeral-wheels, as set forth.

3. A pool-room register, comprising an indicator for indicating the number of players in a game, sets of numeral-wheels each indicating the number of games for a certain number of players, a sliding arm controlled by said indicator, for actuating a set of numeral-wheels according to the number of players in the game, and a device for actuating said means, as set forth.

4. A pool-room register, provided with independent sets of number-wheels, for indicating the number of games played by parties having a greater or a less number of persons in a party, an indicator for indicating the number of persons in a party, an arm moving with the indicator to the corresponding set of number-wheels and slidable toward and from the indicator, and an actuating-lever for said arm, as set forth.

5. A pool-room indicator, comprising a support for a triangle, a spring-pressed lever for locking said triangle in position on said support, an arm mounted to slide and to turn, and adapted to be engaged by said lever, an indicator-plate adapted to be turned and slidably carrying said arm, and sets of number-wheels and actuating mechanism therefor, and adapted to be actuated by said arm, as set forth.

6. A pool-room indicator, comprising a support for a triangle, a spring-pressed lever for locking said triangle in position on said support, an arm mounted to slide and to turn, and adapted to be engaged by said lever, an indicator-plate adapted to be turned and slidably carrying said arm, sets of number-wheels and actuating mechanism therefor, and a releasing device for said lever, as set forth.

7. A pool-room indicator, comprising a support for a triangle, a spring-pressed lever for locking said triangle in position on said support, an arm mounted to slide and to turn, and adapted to be engaged by said lever, an indicator-plate adapted to be turned and slidably carrying said arm, sets of number-wheels and actuating mechanism therefor, a releasing device for said lever, and a single set of

number-wheels adapted to be actuated directly by said lever when released to indicate the number of games played by one party of players, as set forth.

8. A pool-room register, provided with a support for a triangle, a spring-pressed locking-lever for locking said triangle in position on the support, a locking-hook for the lever, a releasing device engaging with said hook, and a grand-total registering device actuated by said lever, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HOWARD H. BREEDEN.

Witnesses:

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CHARLES B. WILSON.