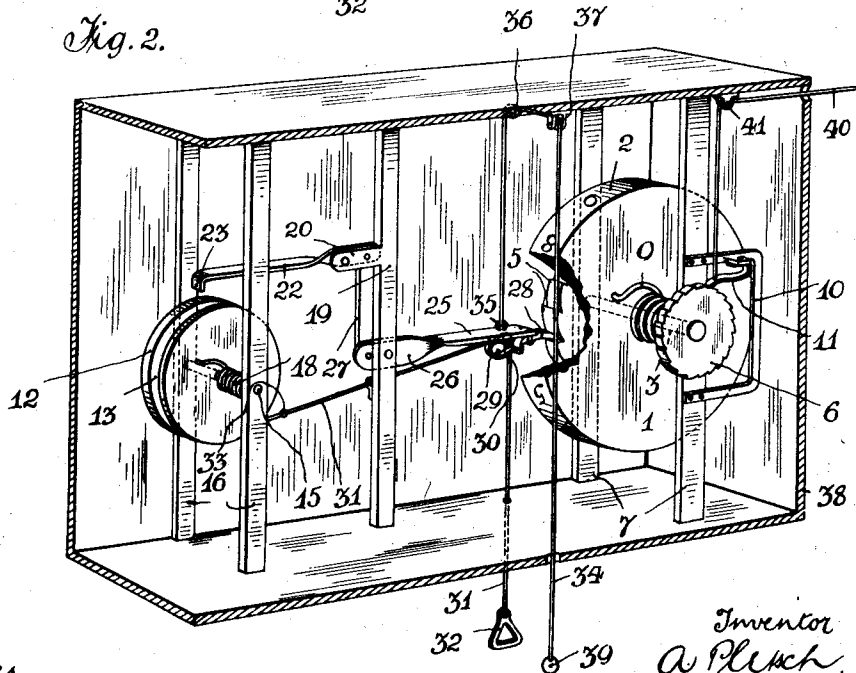
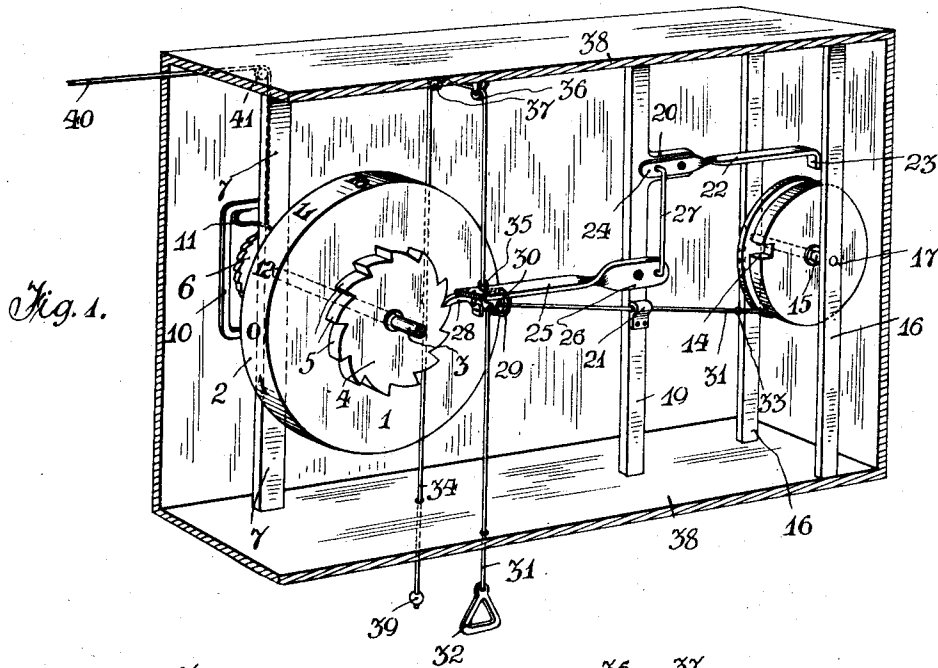


1,009,690.

Patented Nov. 21, 1911.

2 SHEETS—SHEET 1.



Witnesses
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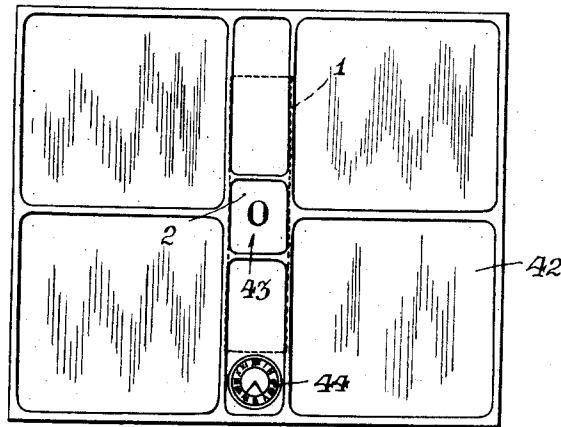
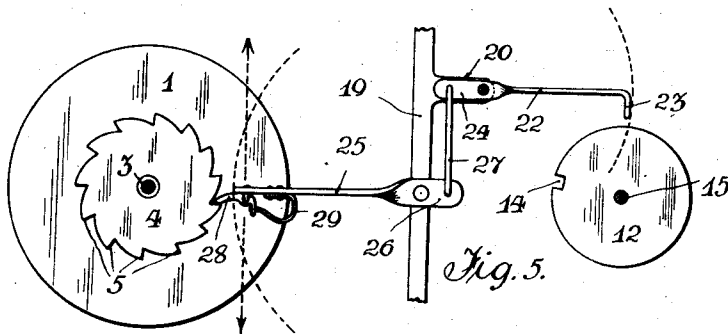
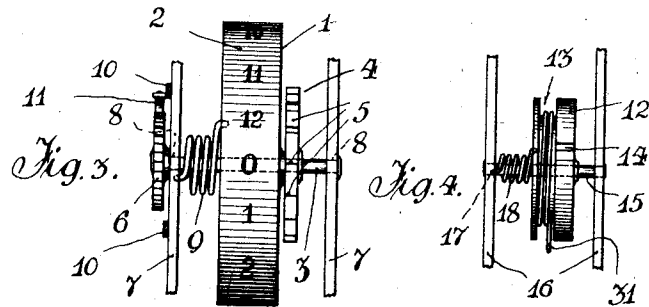
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A. PLETSCH.
 GAME REGISTER.
 APPLICATION FILED APR. 14, 1911.

1,009,690.

Patented Nov. 21, 1911.

2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

ADAM PLETSCH, OF WATROUS, SASKATCHEWAN, CANADA.

GAME-REGISTER.

1,009,690.

Specification of Letters Patent.

Patented Nov. 21, 1911.

Application filed April 14, 1911. Serial No. 621,162.

To all whom it may concern:

Be it known that I, ADAM PLETSCH, resident of the town of Watrous, in the Province of Saskatchewan, in the Dominion of Canada, a subject of the King of Great Britain, have invented certain new and useful Improvements in Game-Registers; and I do hereby declare that the following is a full, clear, and exact description of the same.

The invention relates to improvements in game registers, as described in the present specification and illustrated in the accompanying drawings that form part of the same.

The invention consists essentially in the novel means employed for the intermittent operation of a numeral disk.

The objects of the invention are to devise a register particularly for games, in which the numeral will be prominently shown and the several numerals brought consecutively to the visible position in a positive manner, to provide a game register of neat appearance, and generally to effect economy in the manufacture of such devices and insure simplicity in operation.

In the drawings, Figure 1 is a sectional perspective view of the casing, showing the interior works from one side. Fig. 2 is a sectional perspective view of the casing, showing the interior works from the other side. Fig. 3 is a front elevation of the numeral disk and the ratchets mounted on their shaft. Fig. 4 is a front elevation of the cord reel mounted on its shaft. Fig. 5 is a side elevation of the numeral disk cord reel and the connecting levers. Fig. 6 is a front elevation of the casing.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawing, 1 is the numeral disk, here shown in the form of a drum, having the edge face 2 and the numerals up to 12 on said edge face, spaced at equal distances apart and running from zero, thereby dividing the edge face of the numeral disk into thirteen spaces, this division of course is arbitrary, as any set of numerals may be used, running from zero up to whatever the score of a game may happen to be.

3 is a shaft, on which the said disk 1 is fixedly mounted.

4 is a ratchet wheel having thirteen teeth 5 corresponding to the thirteen spaces on the edge face of the disk 1, the length of each tooth in the operation of the device

being such as to insure the movement of the disk to the extent of one space at each movement of said wheel.

6 is a ratchet wheel fixedly secured on one end of the shaft 3.

7 are bars having the journal orifices 8 intermediate of the length thereof, in which the said shaft 3 is journaled.

9 is a coil spring at one end caught to a side face of the disk 1 and at the other end to a bar 7, consequently on the rotation of the disk 1 in one direction, the spring will be wound up, so much so that on the release of the spring, the wheel will be returned to the zero position.

10 is a frame extending from one of the bars 7 and supporting the spring pawl 11, said spring pawl being fixedly secured to said frame at one end thereof and engaging the teeth of the ratchet wheel 6, forming a retaining pawl and ratchet mechanism acting during the winding of the spring 9, consequent upon the turning of the disk 1.

12 is a reel having the cord groove 13 and the lateral slot 14 in the periphery adjacent to the cord groove 13.

13 is a shaft on which the reel 12 is fixedly mounted.

16 are bars having the journal orifices 17, in which the shaft 15 is journaled.

18 is a coil spring at one end caught to the side face of the reel 12, and at the other end caught to a bar 16, thereby insuring the return of the reel 12 to its original position, after the spring has been partially wound up through the rotation of said reel.

19 is a bar having a lateral lug 20 toward one end thereof and the eye 21 secured thereto and suitably distanced from the lug 20.

22 is a lever pivotally secured adjacent to the end of the lug 20 and having the off-set end 23 engaging the reel 12 in the lateral slot 14, and its tail end 24 linked to the lever 25 at its tail end 26 by the pivotally secured link 27, said tail end 26 extending slightly beyond the shaft in alinement with the tail end 24 of the other lever. The lever 25 extends from the bar 19 inwardly beyond the edge of the disk 1 and terminates adjacent to the ratchet wheel 4 carrying at its inner end a pivoted pawl 28, the tail end of said pawl being engaged by the spring 29, said spring being secured to said lever 25, and the tooth end of said pawl 28 engaging the ratchet wheel 4.

30 is an eye secured to the lever 25.

It will be thus seen that the lever directly operating the ratchet wheel, which turns the shaft and consequently the numeral disk, is operatively connected with the lever adapted to lock the reel, therefore any actuation of the operating lever, either locks or unlocks the reel for reasons more particularly set forth hereinafter.

31 is a cord at one end secured to the reel and wound around in the cord groove 13 and extending through the eye 21 and through the eye 30 and having at the outer end thereof, the handle 32 and, between the reel and the eye 21, the stop 33, said stop being preferably in the form of a knot or lump in the cord and being sufficiently large to prevent it going through the eye 21 and thus arrest the further unwinding of the cord.

34 is a cord secured to an eye 35, the latter being secured to the other side of the lever 25, said cord 34 passing through the eye 36 and the eye 37, the latter eyes being secured to a frame or casing 38, the said cord 34 having at the end thereof adjacent to the outer end of the cord 31, the knob or handle 39.

40 is a cord suitably secured to the spring pawl 11 and passing through an eye 41, the latter being secured to said casing 38, the end of the cord depending in any suitable place.

The works of this apparatus which have just been described, are preferably secured in a casing with the bars 7 and 16 and 19 rigidly secured between the sides of said casing, though this casing, of course, may be a mere frame, however, it is shown here with a face 42 having the window 43 through which one numeral on the disk appears.

44 is a small time clock, mounted in a suitable recess in the casing, beneath the window through which the registering numeral appears.

In the operation of this invention, the handle 32 of the cord 31 is grasped and said cord pulled until the reel turns with its shaft and winds the spring 18, the knot or stop 33 will prevent the further movement of the cord and by this time, the slot 14 in the reel is directly under the off-set end 23 of the lever 22. The continued strain of the cord, after the notch has reached the eye, is sufficient to draw the lever 25 downwardly and as the pawl 28 is in engagement with the ratchet wheel 4, the said ratchet wheel is turned to the extent of one tooth as the said pawl moves in an arc and consequently moves away from said wheel. The rotation of the ratchet wheel 4 to the extent of one tooth is sufficient to turn the disk 1 to the extent of one space, and where zero has appeared through the window 43,

the numeral 1 will appear after such operation. The cord 34 is now pulled, which draws the lever 25 in the other direction, and as the spring-held pawl 28 is pivoted it will readily slide over the point of the tooth into place over the next tooth, besides the movement of this lever 25 in the backward direction will release the off-set end 23 of the lever 22 from engagement in the lateral slot 14, then the spring 18 will return the reel to its original position and wind up the cord thereon. These operations are continued until all the numbers have been registered, or as many as desired, then the cord 40 is pulled and this releases the retaining spring pawl 11 from engagement with the ratchet 6 when the spring 9 will rapidly return the disk 1 to its zero position.

There may be a few modifications in the construction of the parts herein shown, but in the main, the features will be retained, as they are particularly the elements set forth in the following claims for novelty.

What I claim as my invention is:

1. In a game register, a numeral disk suitably supported and journaled, an operating lever, a cord reel suitably journaled, a cord winding on said reel for rotating same and connected with said operating lever, and connections from said operating lever for arresting the rotation of said cord reel on the movement of said lever.

2. In a game register, a numeral disk suitably supported and journaled, a pivotally supported lever operatively connected with said numeral disk, a pivotally supported locking lever pivotally linked to said operating lever, a cord reel suitably supported and journaled and engaged by said locking lever on the operation of said operating lever, and a cord winding on said reel and connected with said operating lever.

3. In a game register, a shaft suitably supported and journaled, a numeral disk fixedly mounted on said shaft, a ratchet wheel fixedly mounted on said shaft, an operating lever pivotally supported, a pawl secured to the end of said operating lever and engaging said ratchet wheel, a locking lever pivotally supported, a link pivotally connecting said locking lever and said operating lever, a cord reel suitably journaled and engaged by said locking lever, and a cord winding on said cord reel and engaging said operating lever.

4. In a game register, a shaft suitably journaled and supported, a numeral disk fixedly mounted on said shaft, a ratchet wheel fixedly mounted on said shaft, a spring wound on said shaft and exerting a backward pressure against the rotation of said disk a retaining pawl and ratchet mechanism connected with said shaft, an operating lever suitably supported and piv-

oted, a pawl secured to said operating lever and engaging said ratchet wheel, a cord reel suitably journaled and supported, a locking lever engaging said cord reel operatively
5 connected to said operating lever, and a cord wound on said cord reel and connected with said operating lever.

5. In a game register, a shaft suitably journaled, a numeral disk fixedly mounted
10 on said shaft, a ratchet wheel fixedly mounted on said shaft adjacent to said wheel, a ratchet wheel fixedly mounted on the other end of said shaft, a spring encircling said shaft and engaging said numeral disk, and
15 a shaft support, a lever pivotally supported, a spring-held pawl secured to the end of said lever and engaging said ratchet wheel adjacent to the numeral disk, a cord reel suitably supported and journaled and hav-
20 ing a slot therein arranged, a lever having an off-set end engaging in said slot in the cord reel and pivotally supported, a link pivotally joining the tail ends of said levers, a cord winding on said reel and connected
25 with said operating lever, and a spring retaining pawl engaging the other ratchet wheel on said shaft and adapted to be released for the return of the numeral disk to zero.

30 6. In a game register, a frame formed of a pair of bars having journal orifices and supporting sides, a shaft journaled in said journal orifices, a numeral disk fixedly mounted on said shaft between said bars, a
35 ratchet wheel fixedly mounted on said shaft adjacent to said disk, a ratchet wheel mounted at the other end of said shaft, an operat-

ing lever pivotally supported intermediate of the length of another bar, a cord reel journaled between another pair of bars, a lock-
40 ing lever pivotally supported on a single bar and linked to said operating lever, an eye secured to said single bar below said operating lever, a cord winding on said cord reel and having a suitable stop interme-
45 diate of the length thereof arrested by said eye, said cord being slidably connected to one side of said operating lever and having a suitable hand grip at the end thereof, a spring retaining pawl engaging said ratchet
50 wheel at the end of the numeral disk shaft, a coil spring around said numeral disk shaft connected to said numeral disk and to one of the supporting bars, a coil spring adapted
55 to return the cord reel to its normal position, a cord secured to the other side of said operating disk and suitably connected to the frame and adapted to form the means of returning said operating disk to its normal po-
60 sition, and a cord secured to said spring pawl for releasing it from engagement with the ratchet wheel.

7. A game register, comprising a frame, a numeral disk and operating ratchet, an actuating lever coacting with said ratchet and
65 a cord slidably secured to and working said lever by the strain effect of a pull thereon.

Signed at Watrous, Saskatchewan, this 28th day of March, A. D. 1911.

ADAM PLETSCH.

Witnesses:

RICH B. DAVIDSON,
S. M. THOMSON.