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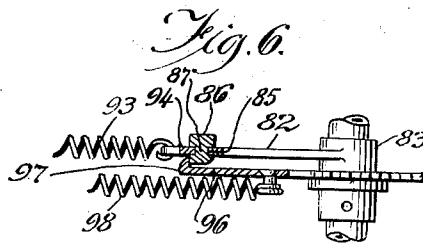
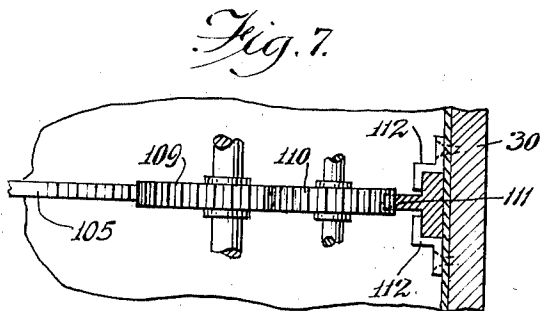
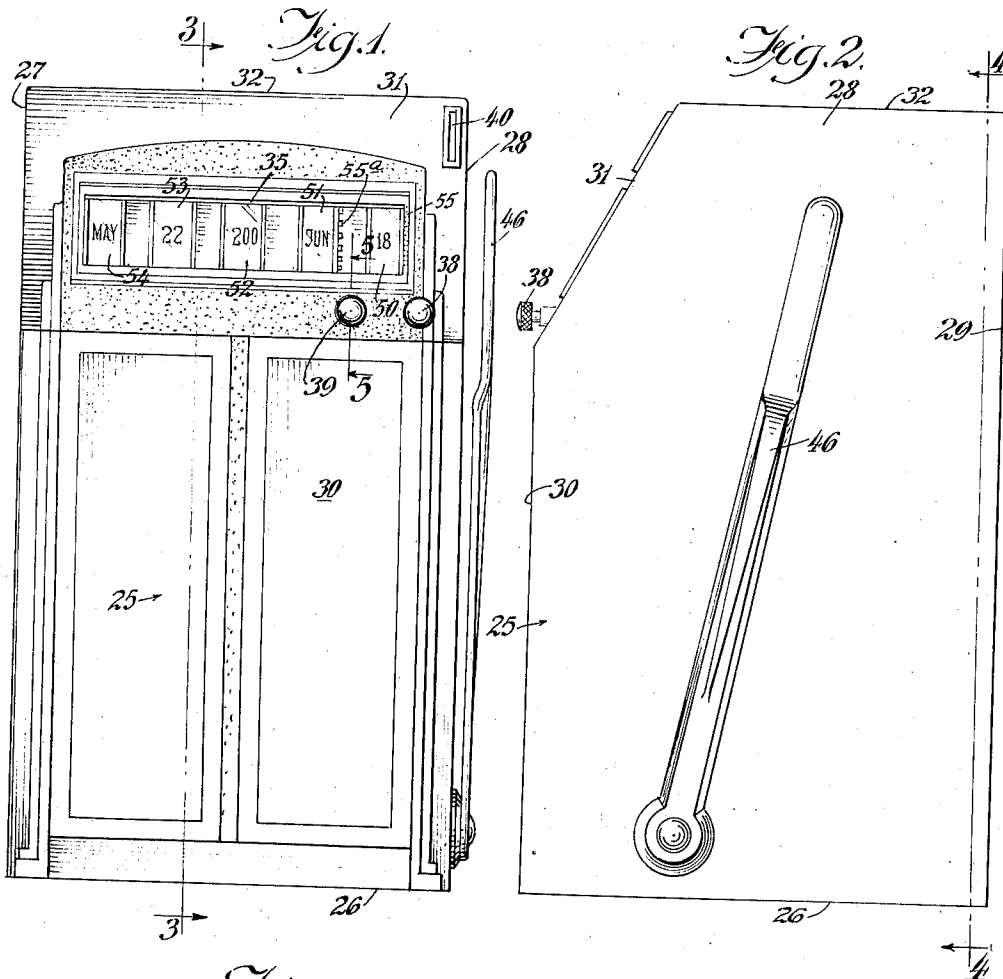
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2,190,845

GAME APPARATUS

Filed June 3, 1938

4 Sheets-Sheet 1



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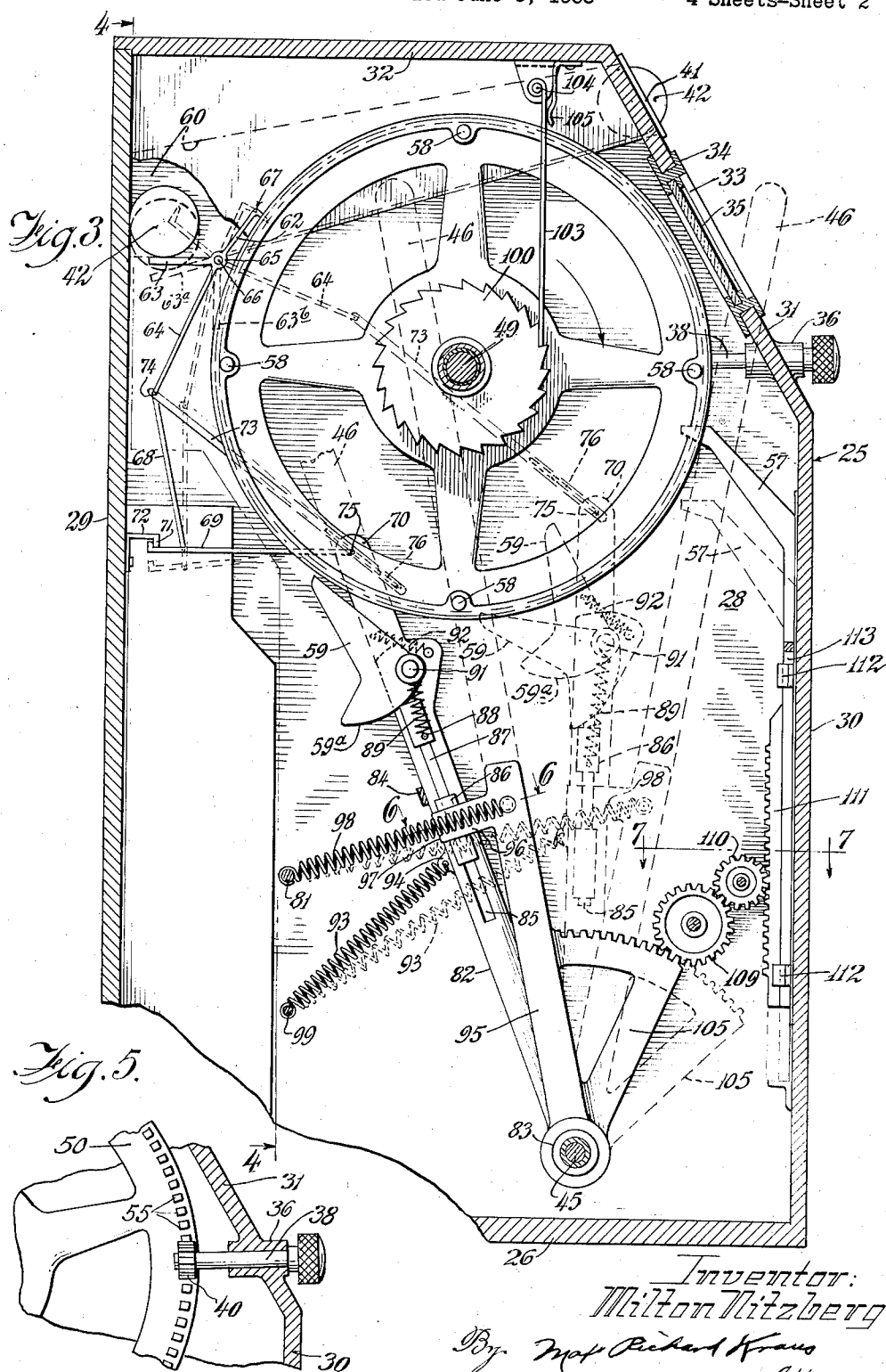
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GAME APPARATUS

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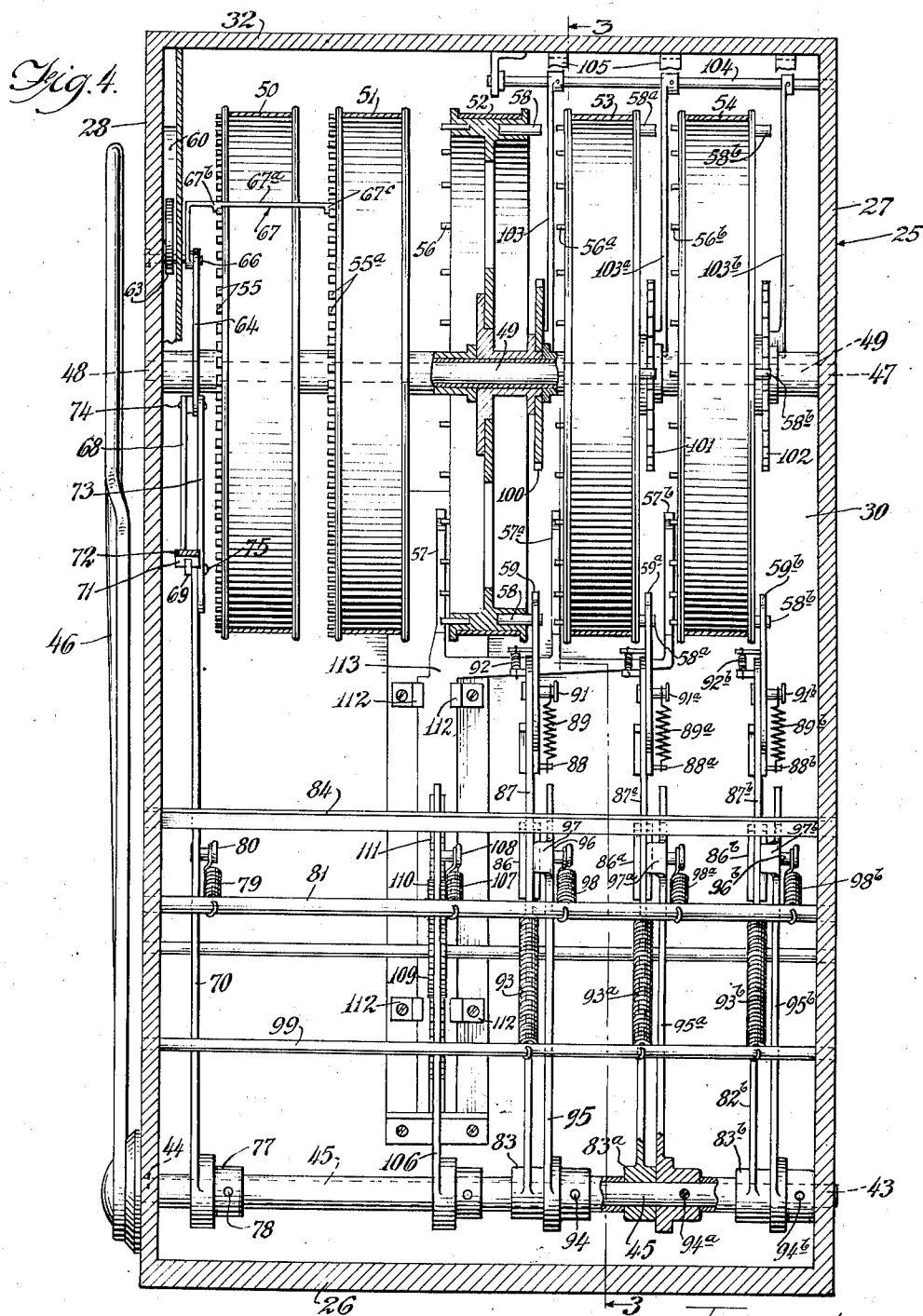
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GAME APPARATUS

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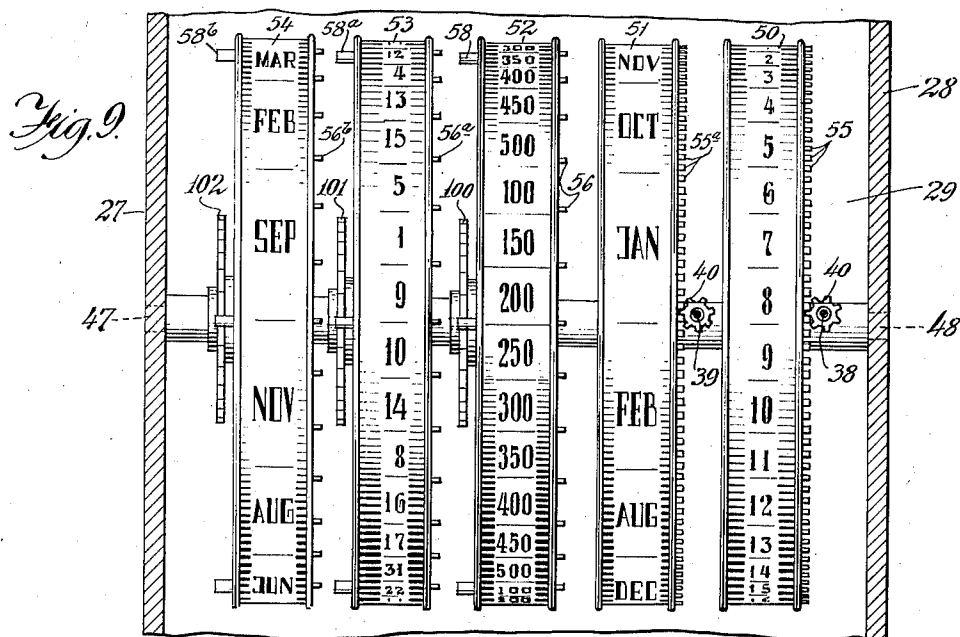
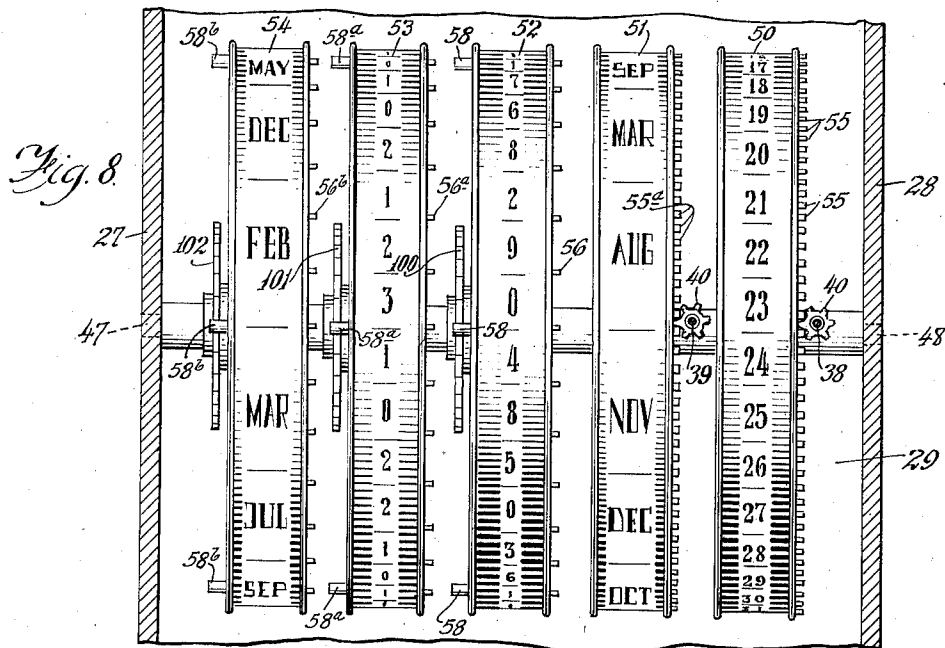
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GAME APPARATUS

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UNITED STATES PATENT OFFICE

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GAME APPARATUS

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Application June 3, 1938, Serial No. 211,609

6 Claims. (Cl. 273-143)

This invention relates to a game apparatus.

One of the objects of this invention is to provide a game apparatus having a rotatable member displaying legends thereon, which member is adapted to be manually set and locked in a selected position to display a particular legend and another independently rotatable member displaying similar legends adapted to be rotated and caused to be arrested in its rotation to display a legend identical to said first predetermined legend.

Another object is to provide a game apparatus having a plurality of legend displaying reels which are adapted to be set and locked in desired combination and a plurality of similar reels which are adapted to be rotated by actuating the machine and which when being arrested in their rotation and displaying a combination of legends identical to that previously selected entitle the player to the prize indicated on one of the rotated reels.

Another object is to provide a game apparatus having a plurality of sets of rotatable reels displaying the months and days of the year, one set of which is adapted to permit the selection of any desired combination of month and day and to be locked to prevent any further changing thereof, another set of said reels is adapted to be rotated and then caused to be arrested in rotation to cause said rotated reels to come to rest and display a combination identical to that previously selected.

Other objects and advantages will become apparent from the specification when taken in connection with the accompanying drawings.

Fig. 1 is a front elevational view of the machine.

Fig. 2 is a side elevational view of same.

Fig. 3 is vertical section of the machine taken on line 3-3 of Fig. 1.

Fig. 4 is vertical section of the machine taken on line 4-4 of Fig. 3.

Fig. 5 is a detail section taken on line 5-5 of Fig. 1.

Fig. 6 is a detail section taken on line 6-6 of Fig. 3.

Fig. 7 is a detail section taken on line 7-7 of Fig. 3.

Fig. 8 is a fragmentary view partly in section showing the arrangement of the figure bearing reels.

Fig. 9 is a similar view of same.

Referring to Fig. 1 and Fig. 3 the mechanism is enclosed in a housing, indicated generally as at 25, comprising a base 26, side walls 27 and 28, a

rear wall 29, a front wall 30, an angularly disposed front wall section 31 and a top wall 32. The front wall section 31 is provided with a cut out portion 33 which is adapted to accommodate a panel frame 34 into which is fitted a transparent panel 35 through which the figure bearing reels may be viewed.

Arranged on the panel 31 are the bosses 36 and 37 which are bored to accommodate the adjusting means presently to be described. Said adjusting means comprises a rod 38 adapted to be received in the bore of the boss 36 and is provided at one end with a knob and at the other end with a pinion 40 press fitted on to the end of said rod. A slot 41 adapted to receive a coin 42 is also arranged on the panel 31.

The side walls 27 and 28 are provided near their bases with apertures 43 and 44 respectively in which is journaled the actuating shaft 45 to which is fixedly secured at one end exteriorly of the housing, an actuating lever 46. Positioned above said shaft and similarly journaled in the side walls as at 47 and 48 is the reel supporting shaft 49 upon which are mounted for free rotation the figure displaying reels 50, 51, 52, 53 and 54. The peripheral face of each reel is provided with a plurality of figures which may be viewed through the panel 35. The reel 50 is provided on its periphery with gear teeth 55 which is adapted to engage the pinion 40 of the adjusting rod 38 and to be rotated thereby. The reel 51 is also provided with similar gear teeth 55a and is adapted to be similarly operated by adjusting rod 39. The reels 52, 53 and 54 are provided with a plurality of projecting pins 56, 56a and 56b respectively, regularly disposed about the peripheries of said reels and adapted to be engaged by locking dogs 57, 57a, 57b, to stop the rotation of said reels. Positioned on the peripheries of the reels 52, 53, 54 opposite the above mentioned stop pins are the pins 58, 58a and 58b which are adapted to be engaged by actuating hammers 59, 59a and 59b as will presently appear, to effect a spinning of the reels 52, 53 and 54 about the shaft 49.

A description of the release mechanism which permits operation of the machine will now be given. The coin chute 60 connects at one end to the coin slot 41 and at the other end to the reel release comprised of 3 integrally formed radial arms 62, 63, 64 projecting from a hub 65 which is pivotally mounted on a shaft 66. The arm 67 is provided with an offset extension 67a which has two angular portions 67b and 67c which are adapted to engage the teeth 55 and 55a

respectively on the reels previously described. The arm 63 is adapted to receive the coin 42 from the coin chute and to be actuated by the weight of said coin. The arm 64 connects to a link member 65 which in turn is connected to lever 70. The link member 69 is provided at its free end with a tooth like angular portion 71 which is adapted to engage a hook member 72 projecting from the wall. The link member 73 is pivotally secured at the joint 74 at one end and at the other end it is slidably secured to the lever 70 by means of a pin 75 which extends through a longitudinal slot 76 in the link member 73. The lever 70 is provided with a hub 77 and is fixedly mounted on the shaft 45 as by a pin or set screw 78.

A spring 79 which is secured to a lug or pin 80 carried on the lever 70 and to a transverse bar 81 serves to return the lever to normal position after actuation thereof.

The operation of this release mechanism is as follows:

A coin which is inserted in the slot 41 rolls down the coin chute 60 and comes to rest on the arm 63. The weight of the coin causes the arm 63 to move downwardly in a counter clockwise direction about its pivot shaft 66 to assume the position indicated by dotted lines in Fig. 3, thereby disengaging the angular portions 67b and 67c from contact with the teeth 55, and 55a respectively. This permits the reels 50 and 51 to be rotated by the rotation of the pinions on the adjusting rods 38 and 39. The arm 64 which is integrally formed with the arm 63 also moves in a similar direction and imparts motion to link 68 which causes the link 69 to move downwardly to cause the tooth portion 71 to disengage the hook 72, as illustrated by dotted lines in Fig. 3. The lever 70 is now free to be rocked about the shaft 45. As the lever 46 is moved to the right the lever 70 moves simultaneously therewith. The lost motion is taken up in the slot 76, and the link 73 follows and draws arm 64 in the same direction causing the arm 63 to assume the position indicated by the dotted lines 63b illustrated in Fig. 3, when the lever 70 has reached the end of its stroke, as shown by dotted lines in the same figure. It will be seen that this movement causes the coin 42 to roll off the arm 63 and to fall in a suitable receptacle. When during the course of the operation of this device, the lever 70 returns to normal position against the cross bar 84 by reason of the tension of the spring 79 on the lever 70, all of the other link members are likewise returned to normal non-operating position and the above described movements follow through when another coin is inserted.

The mechanism for actuating the reels 52, 53 and 54 as shown in Figs. 3 and 4 will now be described. A lever 82 freely mounted at its hub portion 83 on the shaft 45 is provided with a longitudinal slot 85 which is adapted to receive a member 86 which is slidably secured in said slot. Said member is provided with a recessed portion 87 intermediate its ends, said recessed portion being of the same thickness as the lever 82 and flush with the surfaces thereof. A projecting pin 88 is mounted on the member 86 and serves to secure one end of a coil spring 89. A hammer member 59 is pivotally mounted at the top portion of the lever 82 by means of a pin 91 which also serves to secure one end of the spring 89. A spring 92 which is secured to the hammer member 59 and to the lever

82 serves to return the hammer to normal position. A spring 93 secured to a lug 94 integrally formed with the lever 82 and to the cross bar 99 serves to return said lever to normal non-operative position against the cross bar 84. Positioned adjacent said lever 82 and fixedly secured to the shaft 45 as by a pin or set screw 94 is the lever 95 adapted to rock with the shaft 45. The lever 95 is provided near its top portion with an arm 96 which terminates in a jaw 97 which is adapted to engage the slidable member 86. A spring 98 stretched between the lever 95 and the cross bar 81 serves as a means of returning the lever to normal position. Similar mechanisms are provided for actuating reels 53 and 54.

Referring to Figs. 3 and 4 it will be seen that three reels 52, 53 and 54 are each provided with ratchet wheels 100, 101, and 102 respectively which are suitably secured to said reels and are rotatable therewith. Pawls 103, 103a and 103b are pivotally mounted on a shaft 104, which is suitably secured to the housing and which by means of 3 springs 105 are caused to constantly engage the ratchets 101, 102 and 103 and permit rotation only in the direction indicated by the arrow.

Since the operation of the reel actuating mechanisms are all identical a description of the operation of one will only be given.

Assuming that the lever locking mechanism as at 71 has been released by the coin in the manner heretofore described, the actuating lever 46 is now free for operation. By moving the lever 46 to the right, Fig. 3, the lever 95 which is fixedly secured to the shaft 45 is caused to move simultaneously with lever 46. The jaw 97 of lever 95 engages the slidable member 86 and causes the lever 82 which is freely mounted on the shaft 45 to move simultaneously with lever 95. In the course of its travel the hammer 59 strikes the pin 58 on the reel 54 which is prevented from rotating by the pawl 103 and is caused to yield thereto and to assume the position indicated by the dotted lines. As the hammer 59 moves to the right and gradually assumes the dotted line position the cam surface 59a bears against the upper portion of the slidable member 86 and causes it to move in a downward direction. When the hammer 59 has reached the limit of its pivotal travel the engaged portion 86a of the slidable member 86 is driven out of engagement with the jaw 97 to a point where the recessed portion 87 is aligned with the jaw 97. Simultaneously the hammer 59 is moved out of engagement with the pin 58 and the spring 92 causes it to assume the normal upright position illustrated by the dotted lines. At this instant the spring 93 causes the lever 82 on which the hammer 59 is positioned to be drawn back to normal position and in its travel the hammer 59 is caused to strike the pin 58 causing the reel 54 to revolve in the direction indicated by the arrow. The slidable member 86 is also returned to normal position by the spring 99.

It will be remembered that the actuating lever 46 has not as yet been released to return to normal position. The return of said lever causes the actuation of the reel stopping mechanism a description of which will now be given.

A segmental gear 105 integrally formed with a lever 106 is fixedly mounted on the shaft 45 and is adapted to be rocked therewith. A spring 107 stretched between a projecting pin 108 on the lever 106 and the cross bar 81 serves to return the lever to normal position.

The segmental gear 105 is associated with a train of gears comprising gears 109 and 110. Said gear 110 engages the vertical rack 111 which is slidably mounted in suitable guides 112. Integrally formed with said rack is a forked member 113 provided with three projecting dogs 57, 57a and 57b which are angularly disposed with reference to the rack portion and which are adapted to engage the pins 56, 56a and 56b and to stop the rotation of the reels 52, 53 and 54 respectively.

The operation of the above described reel stopping mechanism is as follows:

When the machine is in inoperative position the dogs 57, 57a and 57b are normally in engagement with the pins 56, 56a and 56b. As the shaft 45 is rocked clockwise by the lever 46, the segmental gear 105 which is fixedly mounted on the shaft rocks therewith and causes the gears 109 and 110 to revolve and to move the rack in a downward direction. The dogs 57, 57a and 57b are brought out of engagement with the pins 56, 56a and 56b leaving the reels 52, 53 and 54 free to revolve and to be actuated by means previously described. The release of the lever 46 causes the rotating reels to stop. In this operation the spring 107 draws the lever 106 and segmental gear 105 back to normal position thereby causing the gears 109 and 110 to revolve in a direction opposite from that previously described and to move the rack 111 in an upward direction thereby causing the dogs 57, 57a and 57b to engage the teeth 51, 51a and 51b and to stop the rotation of the reels.

As shown in the preferred embodiment of my invention reels 51 and 50, have displayed on their peripheral faces, the months of the year and days of the month respectively. The reels 54 and 53 are also provided on their peripheral faces with similar displays, the reel 54 having months of the year and the reel 53 having days of the month. Reel 52 is provided on its face with a plurality of numbers which serve the purpose of indicating the amount of the prize to be received by the operator. As previously described when a coin is inserted in the slot the locking mechanism of the reels 50 and 51 is released and the operator by rotating the knobs on the adjusting rods 38 and 39 selects a combination corresponding to his birthday. Partial actuation of the lever 46 causes the reels 50 and 51 to become locked and further changing of the combination is thus prevented until another coin is dropped in the slot. Complete actuation of the lever 46 causes the reels 52, 53 and 54 to be rotated in the manner previously described. The operator by releasing the lever 46 causes said reels to be arrested in their rotation and to display on reels 54 and 53 a combination of a month and a day. If the combination on reels 54 and 53 corresponds to that displayed on reels 51 and 50 the operator is entitled to the prize indicated on the reel 52. When the lever 46 returns to normal position the mechanism is completely locked and can be released only on the insertion of another coin in the slot.

Although in the preferred embodiment, of my invention months of the year and days of the month are displayed on the faces of the reels it will be understood that other figures and representations may be used without departing from the spirit of the invention or the scope of the subjoined claims.

I claim:

1. In a coin operated game device, a plurality of legend displaying reels mounted coaxially, an actuating lever, means for normally locking some of said reels and said actuating lever against movement, said locking means adapted to be actuated by a coin to simultaneously release said lever and some of said reels, means operable by the operator for setting said reels to present a combination of legends, means in operative engagement with said lever for rotating said other reels, means in operative engagement with said lever and controllable by the operator of said device for stopping the rotation of said last mentioned reels to present various combinations of legends, said locking means adapted to lock said lever and said first mentioned reels when said lever is returned to normal non-operating position.

2. In a coin operated game device, a plurality of legend displaying reels mounted for free rotation, a rockably mounted shaft, an actuating lever fixedly mounted thereon, means for normally locking said shaft and some of said reels against movement, said locking means adapted to be activated by a coin to simultaneously release said shaft and said reels, means operable by the operator for setting said reels to present a combination of legends when said reels are released, means in operative engagement with said shaft for causing the rotation of said other reels when said lever is actuated, means in operative engagement with said shaft for stopping the rotation of said last mentioned reels when said lever is released and returned to normal non-operating position, said locking means adapted to lock said lever and said first mentioned reels when said lever is so released.

3. In a coin operated game device, a plurality of legend displaying reels mounted for free rotation, a rockably mounted shaft, a lever mounted thereon for rocking said shaft, means for normally locking said shaft and some of said reels against movement, said locking means adapted to be actuated by a coin to simultaneously release said shaft and said reels, means operable by the operator for setting said reels to present a combination of legends when said reels are released, engageable members carried by other of said reels, engaging members carried on said shaft and adapted to strike said engageable members to cause the rotation of said other reels when said lever is actuated, means carried on said shaft for arresting the rotation of said last mentioned reels to present various combinations of legends, said locking means adapted to lock said shaft and said first mentioned reels when said lever is released and returned to normal non-operating position.

4. In a device of the character described, a plurality of legend displaying reels coaxially mounted for free rotation, some of said reels being provided, on the peripheral edges thereof, with means engageable by pinions for rotating said reels and selectively setting same to present a combination of legends, locking means engageable with said above mentioned means for normally locking said reels against rotation, actuating means for causing the rotation of other of said reels, said other reels being provided, on the peripheral edges thereof, with a plurality of spaced elements engageable by locking means for arresting and locking said reels against rotation, coin controlled means for releasing said locking means whereby some of said reels are selec-

tively settable to present combinations of legends and said actuating means are operable to cause the rotating of said reels, said second mentioned locking means being in operative association with said actuating means and operable by the operator to arrest the rotation of said other reels when said actuating means are returned to normal inoperative position.

5. In a device of the character described, a plurality of legend displaying reels mounted for free rotation, means for selectively setting some of said reels to present a combination of legends, means for normally locking some of said reels against movement, actuating means for causing the rotation of other of said reels, means for locking said actuating means against operation thereof, coin controlled means for releasing said locking means whereby some of said reels are selectively settable to present combinations of legends and said actuating means are operable to cause the rotation of said other means, means in operative engagement with said actuating means and controllable by the operator of said device for arresting the rotation of said other reels, said locking means being operable to lock said reels against movement and to lock said

actuating means against operation when the rotation of said other reels is arrested.

6. In a device of the character described, a plurality of legend displaying reels mounted coaxially for free rotation, some of said reels being provided with means for rotating same for selecting a combination of legends, locking means engageable with said reels for locking same against rotation, actuating means for causing the rotation of other of said reels, said actuating means including a spring tensioned hammer member adapted to strike one of a plurality of projections extending from the peripheral edges of said second mentioned reels, locking means controllable by the operator of said device for arresting and locking said second mentioned reels against rotation, coin controlled means for releasing said locking means whereby said first mentioned reels are rotatable to select a combination of legends and said actuating means are operable to cause the rotation of said second mentioned reels, said locking means being operable to lock said first mentioned reels against rotation and to lock the actuating means against operation when said actuating means are returned to normal inoperative position.

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