

1) Family number: 49579043 (US2011223983A)

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Title: MULTIPLE WAGER, MULTIPLE POTENTIAL WINNING OUTCOME GAMING PLATFORM

Abstract: A multiple wager, multiple potential winning outcome gaming "Spin Game" platform may be played in its native configuration as well as easily themed to allow variations and adaptations including but not limited to casino table games, sporting teams and events, entertainment, film, television, and celebrities, as well as various other pop-culture fashions and trends. Specific deployments may be used to aid in transitioning "slots only" (or other EGM exclusive) players to active participants in table games by providing a step-by-step confidence building path from individual standalone, to multi-player "Party Style" deployments of the "Spin Game", and finally to the actual table games themselves. Countdown timers may be configured to encourage and even reward players to place their wagers before the timer reaches zero-when "No More Bets" is called and the "Game Wheel" is spun, thereby ensuring that casino "hands per minute" target goal requirements are met or exceeded.

Classifications:

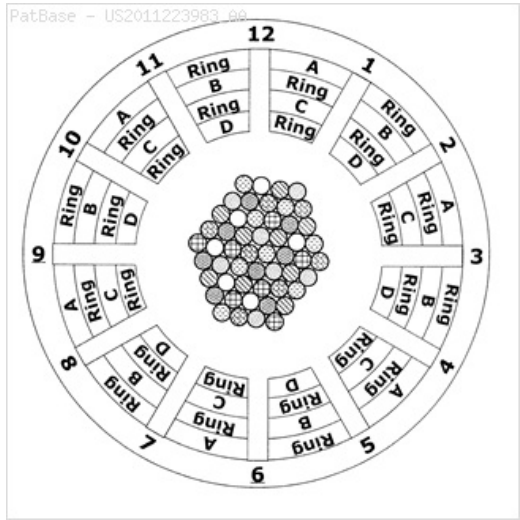
International (IPC 8-9): A63F13/00 A63F9/24

G06F17/00 (Advanced/Invention)

CPC: G07F17/3211 G07F17/322 G07F17/3283 G07F17/34

European: G07F17/32C2F G07F17/32C4D G07F17/32M8H
G07F17/34

US: 463/17 463/17P 463/25 463/25S 463/30 463/30S



Family:

Publication number	Publication date	Application number	Application date
US2011223983 AA	20110915	US20110045120	20110310
US8360844 BB	20130129	US20110045120	20110310

Priority:

US20100340114P 20100313 US20110045120 20110310

Probable Assignee: MITCHELL GLORIA F

Assignee(s): (std): MITCHELL GLORIA F ; SCHWARTZ MARC B

Inventor(s): (std): SCHWARTZ MARC B ; MITCHELL GLORIA F

Agent(s): MARK A LITMAN AND ASSOCIATES PA

2) Family number: 4925179 (US4559918A)

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Title: BALL-THROWING DEVICE WITH BALL THROWING HEADS AND BALL CONVEYING SYSTEM INCLUDING Y-JUNCTION

Abstract: Balls such as table tennis balls or tennis balls are continuously fed to two pairs of adjacent flanged rollers of a ball-throwing head by a blower and two transfer ducts. Balls hit by the player are collected by a net and a trough, then fed back to the head. The rollers have separately variable speeds of rotation, a gap being provided between each pair of rollers and adapted to the diameter of the balls. The balls are directed alternately into each transfer duct, the opening of which is located opposite to each gap.

Classifications:

International (IPC 8-9): A63B69/40 (Advanced/Invention);

A63B47/02 (Advanced/Non-invention);

A63B69/40 (Core/Invention);

A63B47/00 (Core/Non-invention)

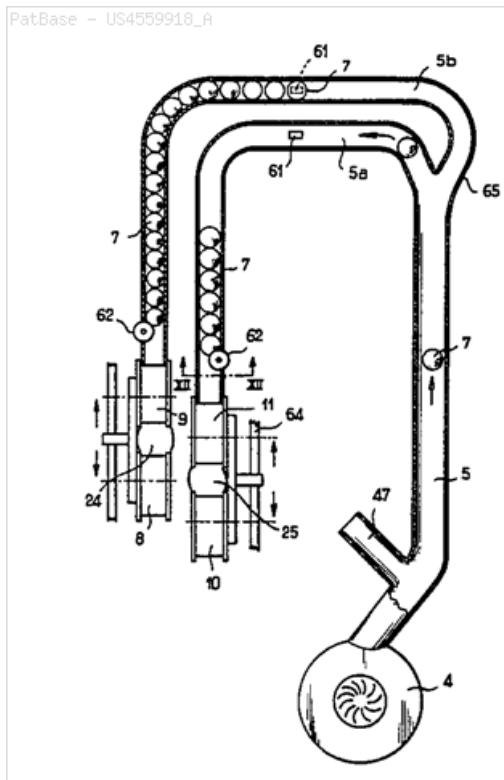
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A63B69/00 A63B69/40 F41B15/00

CPC: A63B2102/16 A63B69/406 A63B2047/028

European: A63B69/40D K63B243/00U K63B47/02E1P

US: 124/41.1 124/41R 124/51A 124/53.5 124/78 124/81 273/30

**Family:**

Publication number	Publication date	Application number	Application date
AT18636 E	19860415	AT19830400731T	19830413
DE0094267 T1	19840301	DE19830400731T	19830413
DE3362579 D1	19860424	DE19833362579	19830413
EP0094267 A1	19831116	EP19830400731	19830413
EP0094267 B1	19860319	EP19830400731	19830413
FR2526667 A1	19831118	FR19820008237	19820512
FR2526667 B1	19841221	FR19820008237	19820512
JP58206774 A2	19831202	JP19830080260	19830510
US4559918 A	19851224	US19830486304	19830419

Priority:

FR19820008237 19820512 EP19830400731 19830413

Probable Assignee: FAIVELEY ETS**Assignee(s):** (std): FAIVELEY ETS ; FUEBERE ANTORAPURIIZU**Assignee(s):** FAIVELEY ENTREPRISES ; FAIVELEY ENTREPRISES 93 RUE DU DOCTEUR BAUER**Inventor(s):** (std): BALLERIN JEAN PAUL ; GEORGELIN ALEXANDRE ; BALLERIN EDMOND ; EDMONDO BARERIN ; AREKUSANDORU JIYOOZERIN ; JIYANNPOORU BARERIN**Inventor(s):** JEAN PAUL BALLERIN ALEXANDRE GEORGELIN ET EDMOND BALLERIN ; JEAN PAUL BALLERIN ALEXANDRE GEORGELIN ET... ; JEAN PAUL BALLERIN ALEXANDRE GEORGELIN ET EDMOND B**Designated states:** AT BE CH DE FR GB IT LI LU NL SE**3) Family number: 42672203 (WO08153505A2)**

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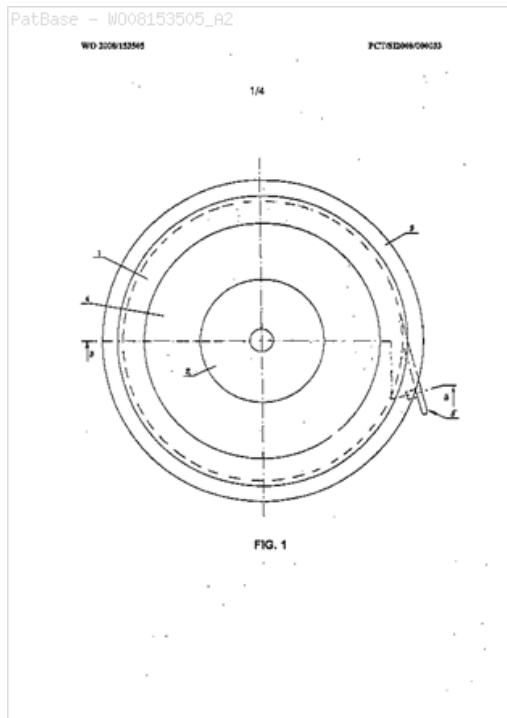
Title: PLAYING DEVICE WITH LAUNCH BALL SYSTEM

Abstract: The subject of the invention is a playing device with a launch ball system, for example a roulette, where the launch ball system enables an execution of a covered playing surface, so that any outer intervention into the coincidental movement of the ball is disabled. The playing device according to the invention, which consists of a launching mechanism (5) for launching the ball into the rolling assembly of the playing automate, where the rolling assembly consists of the base part (4) with markings and a movably placed lid (2) that can be controllably lifted with the aid of a mechanism (3) with an eccentric lug and therefore, we can enable the return of the ball into the launching mechanism.

Classifications:**International (IPC 8-9):** A63F5/00 (Advanced/Invention);

A63F5/00 (Core/Invention)

CPC: A63F5/0005 A63F7/2472 A63F2007/345**European:** A63F5/00A K63F7/24B5 K63F7/34R



Family:

Publication number	Publication date	Application number	Application date
SI22530 C	20081231	SI20070000141	20070613
WO08153505 A2	20081218	WO2008SI00033	20080609
WO08153505 A3	20090514	WO2008SI00033	20080609

Priority:

SI20070000141 20070613

Probable Assignee: ROYCE AND BACH D O O

Assignee(s): (std): ROYCE AND BACH D O O ; ZUPAN ALOJZ

Assignee(s): ROYCE AND BACH DOO

Inventor(s): (std): ZUPAN ALOJZ

Agent(s): PIPAN MARJAN

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

4) Family number: 11203222 (US5827119A)

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Title: Rotatable playing surface game

Abstract: A rotatable playing surface amusement game which is automatically controlled by a microprocessor which includes a rotatable object and a segmented substantially circular rotatable playing surface surrounded by a race and means for accelerating the rotatable object onto a race with sufficient centrifugal force as to maintain the rotatable object in the race for a predetermined period of time which upon a timed or player input results in the stopping of the substantially circular rotating playing surface alone or together with the race which may also be rotatable while the rotatable object continues to rotate in the race held by centrifugal force until gravity and inertia result in the return of the rotatable object back onto the rotatable playing surface and coming to rest on a particular segment. The rotatable surface game includes a housing, transparent cover, player control input panels and contact sensors for indicating the resting position of the rotatable object controlled by a microprocessor which awards rewards based upon player input selection of the projected final position of the rotatable object. The rotatable playing surface may be segmented equally or unequally and the segments may contain various segment identifying indicia along with timing switches and player controlled skill switches to test judgment of speeds, inertia and movement of the rotatable object with respect to the various segments of the rotatable playing surface.

Classifications:

International (IPC 8-9): A63F5/00 G07F17/32

G07F17/34 (Advanced/Invention);

A63F5/00 G07F17/32 (Core/Invention)

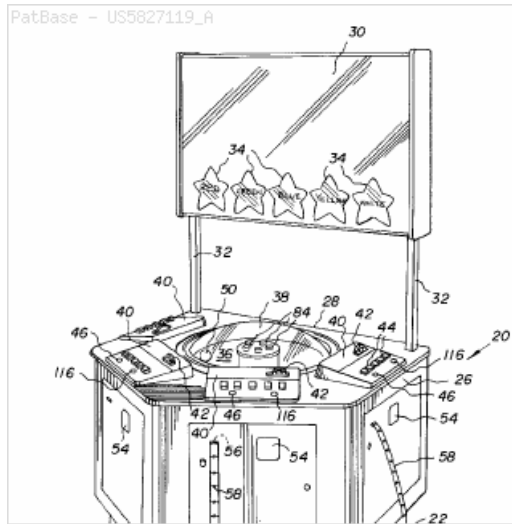
International (IPC 1-7): A63F9/22

CPC: A63F5/00 A63F5/0005 A63F5/007 G07F17/32 G07F17/3213

European: A63F5/00 A63F5/00A G07F17/32 G07F17/32C2F2

K63F5/00C

US: 273/142B 273/142F 463/17 463/7

**Family:**

Publication number	Publication date	Application number	Application date
US5827119 A	19981027	US19960689783	19960814

Priority:

US19960689783 19960814

Probable Assignee:

BROMLEY INC

Assignee(s): (std):

BROMLEY INC

Inventor(s): (std):

BROMLEY LAURAN

5) Family number: 66859243 (US2017256121A)

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Title: ROULETTE GAMING SYSTEM

Abstract: The present disclosure relates to a roulette wheel apparatus, and in particular to a ball launcher for use in a gaming system such as a roulette wheel apparatus and roulette wheel apparatus comprising the ball launcher. According to a first aspect, the ball launcher comprises a pair of launch tubes adapted to be connected to the airflow generator and defining different launching directions, wherein the ball gate for gating the ball into one of the launch tubes includes a ball shuttle adapted to be moveable from a ball-receiving station to each one of said pair of launch tubes to transport the ball from the ball-receiving station to one of said launch tubes.

Classifications:**International (IPC 8-9):** A63F5/00 A63F7/24 A63F9/00

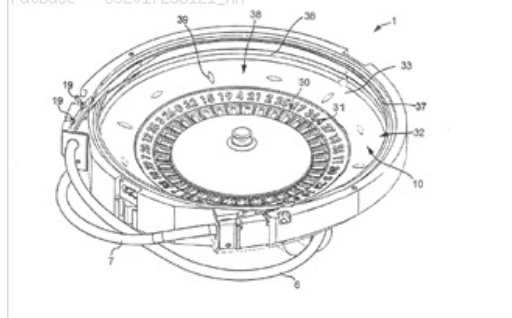
G07F17/32 (Advanced/Invention);

A63F7/24 A63F9/00 (Advanced/Non-invention);

A63F5/00 A63F7/00 A63F9/00 (Core/Invention)

International (IPC 1-7): A63F5/00**CPC:** G07F17/322 G07F17/3288 A63F5/0005 A63F7/2409

A63F2009/0087 A63F5/0076

US: 1/1 463/17**Family:**

Publication number	Publication date	Application number	Application date
AU2017226825 AA	20180906	AU20170226825	20170303
AU2017226827 AA	20180906	AU20170226827	20170303
AU2017226828 AA	20180906	AU20170226828	20170303
BR112018067791 A2	20190212	BR20181167791	20170303
BR112018067807 A2	20190115	BR20181167807	20170303
CA3016227 AA	20180830	CA20173016227	20170303
CA3016230 AA	20180830	CA20173016230	20170303
CA3016232 AA	20180830	CA20173016232	20170303
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CL2018002513 A1	20190111	CL20180002513	20180903
CL2018002514 A1	20190111	CL20180002514	20180903
CN109310923 A	20190205	CN201780020839	20170303
CN109310924 A	20190205	CN201780020845	20170303
CN109414611 A	20190301	CN201780020772	20170303
CO20180009301 A2	20180920	CO20180009301	20170303
CO20180009302 A2	20180920	CO20180009302	20170303
CO20180009303 A2	20180920	CO20180009303	20170303
DE602016005631 D1	20181018	DE201660005631T	20160311
DK3213798 T3	20190102	DK20160159807T	20160311
EP3213798 A1	20170906	EP20160159807	20160311
EP3213798 B1	20180919	EP20160159807	20160311

EP3213798 B8	20190123	EP20160159807	20160311
EP3478379 A1	20190508	EP20170708429	20170303
ES2700451 T3	20190215	ES20160159807T	20160311
HR20182024 T1	20190125	HR20180002024	20181203
HU041466 T2	20190528	HU20160159807T	20160311
IN201817032216 A	20190104	IN201817032216	20180828
IN201817033556 A	20181214	IN201817033556	20180906
KR20180118729 A	20181031	KR20187028164	20170303
LT3213798 T	20181227	LT20160159807T	20160311
MX2018010677 A1	20190130	MX20180010677	20170303
MX2018010679 A1	20190130	MX20180010679	20170303
MX2018010681 A1	20181129	MX20180010681	20170303
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PH2018501854 A	20190128	PH20180501854	20180831
PH2018501855 A	20190128	PH20180501855	20180831
PL3213798 T3	20190329	PL20160159807T	20160311
RS58054 B1	20190228	RS20180001475	20160311
SG11201807075Q A1	20180927	SG20181107075	20170303
SG11201807078P A1	20180927	SG20181107078	20170303
SG11201807385T A1	20180927	SG20181107385	20170303
SI3213798 T1	20190228	SI20160030128T	20160311
TR201818324 T4	20181221	TR20180018324T	20160311
US2017256121 AA	20170907	US20170424326	20170203
WO17148590 A1	20170908	WO2017EP00291	20170303
WO17148592 A1	20170908	WO2017EP00293	20170303
WO17148593 A1	20170908	WO2017EP00294	20170303

Priority:

EP20160158784 20160304 EP20160159807 20160311 WO2017EP00293 20170303
WO2017EP00294 20170303 WO2017EP00291 20170303

Probable Assignee: NOVOMATIC AG

Assignee(s): (std): GRYPHON INVEST AG ; IMPERA GMBH ; NOVOMATIC AG ; NOVOMATIC GAMING IND GMBH

Assignee(s): BURGSTALLER JURGEN ; STEGEL MIHA ; ZUPANCIC SILVESTER ; JOJIC SINISA ; NOVO SWISS AG

Inventor(s): (std): ZUPANCIC SILVESTER ; BURGSTALLER JUERGEN ; STEGEL MIHA ; JOJIC SINISA ; BURGSTALLER JURGEN ; BURGSTALLER JUEGEN ; JUERGEN BURGSTALLER ; MIHA STEGEL ; SILVESTER ZUPANCIC ; SINISA JOJIC

Agent(s): SPRUSON AND FERGUSON; BERESKIN AND PARR LLP SENCRL SRL; ESTUDIO CAREY LTDA; THOMA MICHAEL; SAEZ ANA; HANDE MUMCUOGLU

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 45102428 (US2010133746A)

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Title: SYSTEM AND METHOD FOR PROVIDING A TABLE GAME

Abstract: A system and method for providing a table game are disclosed. According to one embodiment, an apparatus comprises a playing field, a ball launcher mechanism launching a ball into the playing field, and the ball launcher mechanism allows a first player to select one or more attributes affecting a ball trajectory. The apparatus further comprises a ball striker mechanism controlling a ball striker. The ball striker placed at a distance from the ball launcher mechanism in the playing field has a bat to hit a ball launched by the ball launcher mechanism and is controlled by a second player. One or more sensors are placed in predetermined locations in the playing field. The electrical signals generated by the one or more sensors are used to update a status of a game.

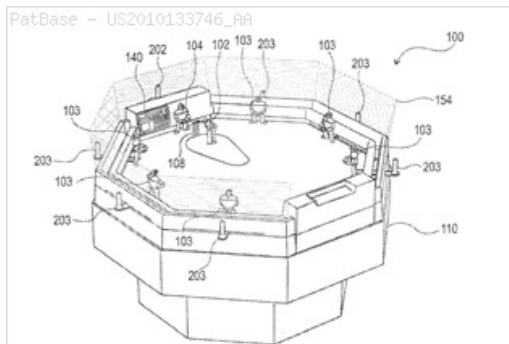
Classifications:

International (IPC 8-9): A63B67/20 A63F7/00 A63F7/06 A63F7/20 A63F7/24 A63F7/26 A63F7/30 (Advanced/Invention); A63F7/34 A63F9/24 (Advanced/Non-invention); A63B67/20 A63F7/00 (Core/Invention)

CPC: A63F7/0017 A63F7/2418 A63F7/2481 A63F7/249 A63F7/0608 A63F7/06 A63F7/24 A63F7/0604 A63F7/20 A63F7/0664 A63F2007/345 A63F2009/2458

European: A63F7/06A1 K63F7/34R K63F9/24P2S2

US: 1/1 273/108.1 273/108.31 273/108.310P 273/108.32 273/108.320S 273/119R 273/123R 273/129V 273/317.7 273/317.9 273/461



Family:

Publication number	Publication date	Application number	Application date
AU2009322317 AA	20100610	AU20090322317	20091203
AU2009322317 BB	20130801	AU20090322317	20091203
AU2013345055 AA	20140522	AU20130345055	20131112
AU2013345055 BB	20180201	AU20130345055	20131112
GB201110731 A0	20110810	GB20110010731	20091203
GB201509581 A0	20150715	GB20150009581	20131112
GB2478251 A1	20110831	GB20110010731	20091203
GB2478251 B2	20140305	GB20110010731	20091203
GB2522591 A1	20150729	GB20150009581	20131112

IN01762KN2015 A	20160122	IN2015KN01762	20150609
IN02179KN2011 A	20111028	IN2011KN02179	20110525
US2010133746 AA	20100603	US20090630736	20091203
US2013193644 AA	20130801	US20120731701	20121231
US2014035226 AA	20140206	US20120676085	20121113
US2015251084 AA	20150910	US20150715422	20150518
US8360435 BB	20130129	US20090630736	20091203
US9033344 BB	20150519	US20120731701	20121231
US9266014 BB	20160223	US20120676085	20121113
WO10065783 A1	20100610	WO2009US66650	20091203
WO14078251 A1	20140522	WO2013US69533	20131112

Priority:

US20080200874P 20081203 US20090630736 20091203 WO2009US66650 20091203
US20120676085 20121113 US20120731701 20121231 WO2013US69533 20131112
US20150715422 20150518

Probable Assignee: THROWMOTION INC

Assignee(s): (std): DAYAL ADITYA ; GRIMM TOM ; THROWMOTION ; THROWMOTION INC

Inventor(s): (std): DAYAL ADITYA ; GRIMM TOM ; HELTSLEY SETH

Inventor(s): SETH HELTSLEY ; ADITYA DAYAL ; TOM GRIMM

Agent(s): FB RICE; FB RICE PTY LTD; ORRICK HERRINGTON AND SUTCLIFFE LLP IP PROSECUTION
DEPARTMENT; KING AND SPALDING LLP; SANJEET; STEPTOE AND JOHNSON LLP; DUTTA SANJEET K ET
AL; DUTTA SANJEET K

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
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SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 30151449 (US4869505A)

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Title: Roulette playing device

Abstract: A roulette playing device comprises a release opening for releasing a ball. The opening is formed in a circular wall at a position higher than the level where the ball runs on the outermost circumference thereof. The circular wall is preferably tilted from a vertical plane toward a roulette wheel. Such an arrangement prevents the ball from running astray and dropping into the release opening. The roulette playing device further comprises ball sensors for detecting the ball running on the circular runway, an average speed detector for detecting the time the ball takes to run between two of the ball sensors, and a control device for outputting an instruction for prohibiting any more betting when the detected value by the speed detector reaches a preset value. Such an arrangement enables the behavior of the ball to be detected accurately and NO BETTING operation to be timed stably, whereby roulette games are made more amusing.

Classifications:

International (IPC 8-9): A63F5/02 A63F5/04 A63F7/06

A63F9/00 (Advanced/Invention);

A63F7/06 A63F9/00 (Advanced/Non-invention)

International (IPC 1-7): A63B7/00 A63F1/18 A63F5/00 A63F5/02

A63F5/04 B62D37/02

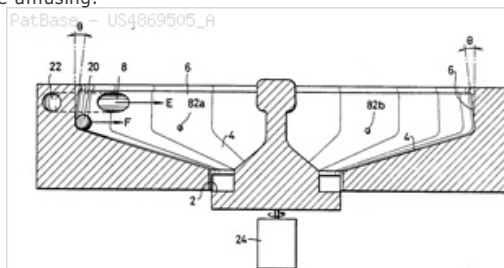
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European: A63F5/00 G07F17/32M2 K63F7/06D K63F7/34R

K63F9/00N4P K63F9/24N4C

US: 273/142B 273/142E 273/142F 273/142R 463/22



Family:

Publication number	Publication date	Application number	Application date
AT65928 E	19910815	AT19870310056T	19871113
AT66160 E	19910815	AT19870310057T	19871113
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EP0267804 A2	19880518	EP19870310056	19871113
EP0267804 A3	19880727	EP19870310056	19871113
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EP0269331 A2	19880601	EP19870310057	19871113
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GB8726642 A0	19871216	GB19870026642	19871113
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JP1015082 A2	19890119	JP19870243410	19870928
JP1660603 C3	19920421	JP19860271565	19861114
JP1660604 C3	19920421	JP19860271566	19861114
JP3024876 B4	19910404	JP19860271565	19861114

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JP63125272 A2	19880528	JP19860271564	19861114
JP63125273 A2	19880528	JP19860271565	19861114
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JP64015082 A2	19890119	JP19870243410	19870928
US4869505 A	19890926	US19870120137	19871113
US4906005 A	19900306	US19870120127	19871113
US4989873 A	19910205	US19890393382	19890814

Priority:

JP19860175094U	19861114	JP19860271564	19861114	JP19860271565	19861114
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Probable Assignee: ARUZE CORP

Assignee(s): (std): SIGMA ENTERPRISES INC ; SIGMA ENTPR INC ; SIGMA SHOJI KK

Assignee(s): SIGMA INC ; SIGMA ENTERPRISES INC 17 2 KABUKI CHO 1 CHOME SHIN ; SIGMA ENTERPRISES INC TOKIO TOKYO JP ; ADORES INC ; ARUZE CORP

Inventor(s): (std): MANABE KATSUKI ; MANABE MASAKI ; KATSUKI MANABE

Inventor(s): MANABE KATSUKI SETAGAYA KU TOKYO JP

Agent(s): SPRUSON AND FERGUSON

Designated states: AT DE ES FR IT

8) Family number: 20681551 (US6520854B)

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Title: Roulette wheel assembly and table arrangement

Abstract: A roulette wheel assembly and table arrangement includes a roulette wheel rotatably mounted in a wheel bowl, and driven by an electric motor. Thirty seven slot compartments are located around the wheel circumference to receive a roulette ball. In operation the wheel is rotated and the slot compartment floor is lowered to allow a ball from the previous game to be thrown outwardly and fall into a ball magazine. A firing breech is opened to allow a ball to enter a firing chamber. On the command, an air blower blows the ball into a firing tube which propels the ball tangentially onto the bowl in the opposite direction to the travel of the wheel. The ball travels across the bowl onto the wheel and finally lands in a compartment. Each player around the table has a betting station giving the betting choices that make up the game.

Classifications:

International (ipc 8-9): A63F5/00 A63F5/04 (Advanced/Invention);

A63F5/00 A63F5/04 (Advanced/Non-invention);

A63F5/00 A63F5/04 (Core/Invention);

A63F5/00 (Core/Non-invention);

A47B A63F (Subclass/Invention)

International (ipc 1-7): A47B A63F5/00 A63F5/02 A63F5/04

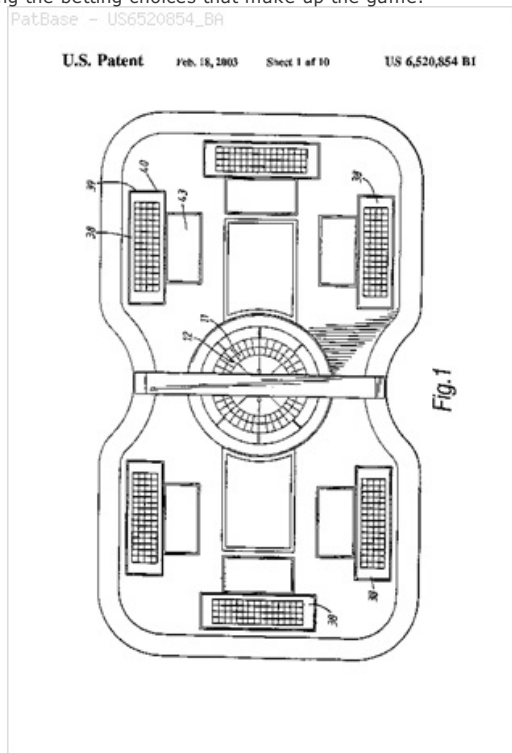
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G07F17/3262 A63F2011/0058

European: A63F5/00 A63F5/00A G07F17/32M2 K63F5/00D1

K63F9/00N4

US: 273/142B 273/142D 273/142E 273/142R 463/17 463/25



Family:

Publication number	Publication date	Application number	Application date
AR015937 AA	20010530	AR1998P104344	19980831
AT212873 E	20020215	AT19980940424T	19980828
AU199888752 A1	19990322	AU19980088752	19980828
AU733132 B2	20010510	AU19980088752	19980828
BRPI9812035 A	20000926	BR1998PI12035	19980828
CA2300160 AA	20000210	CA19982300160	19980828
CN1122547 C	20031001	CN19988010926	19980828
CN1278743 A	20010103	CN19988010926	19980828
DE69803780 D1	20020321	DE19986003780	19980828
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EP1009500 A1	20000621	EP19980940424	19980828
EP1009500 B1	20020206	EP19980940424	19980828
ES2172911 T3	20021001	ES19980940424T	19980828

GB200004586 A0	20000419	GB20000004586	19980828
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GB2344540 A8	20000621	GB20000004586	19980828
GB2344540 B2	20020220	GB20000004586	19980828
GB9718501 A0	19971105	GB19970018501	19970901
GB9809465 A0	19980701	GB19980009465	19980501
HK1026381 A1	20021122	HK20000105712	20000911
HU0003538 AB	20010228	HU20000003538	19980828
HU0003538 AC	20011228	HU20000003538	19980828
HU224019 B1	20050530	HU20000003538	19980828
IL134784 A0	20010430	IL19980134784	19980828
KR20010023554 A	20010326	KR20007002202	19980828
NZ502744 A	20011130	NZ19980502744	19980828
SI1009500 T1	20020831	SI19980030162T	19980828
SK2000000290 A5	20000814	SK20000000290	19980828
SK285196 B6	20060803	SK20000000290	19980828
TW381975 B	20000211	TW19980114069	19980826
US6520854 BA	20030218	US20000515725	20000229
WO9911341 A1	19990311	WO1998GB02599	19980828
ZA9807903 A	19990301	ZA19980007903	19980831

Priority:

GB19970018501 19970901 GB19980009465 19980501 EP19980940424 19980828
GB20000004586 19980828 WO1998GB02599 19980828

Probable Assignee: NRC GROUP LTD

Assignee(s): (std): NEC GROUP CO LTD ; NRC GROUP ; NRC GROUP LTD ; NRC GROUP PLC ; NRC GROUP CO LTD ; NRC GROUP LIMITED ; NRC GROUP PLC HARTLEPOOL ; NRC GROUP PLC PARSONS BUSINESS ; GORDON MCNALLY ; MCNALLY GORDON ; POLACCA INVEST LTD

Assignee(s): POLACCA INVESTMENT LIMITED ; NRC GROUP UK LTD ; NEC GROUP CO ; NRC GROUP CO ; NRC GROUP PLC PARSONS BUSINESS CENTRE ; NRC GROUP PLC PARSONS BUSINESS CENTRE HARTLEPOOL CLEVELAND ; POLACCA INVESTMENT LTD ; NRC GROUP PLC PARSONS BUSINESS CENTRE HARTLEPOOL C

Inventor(s): (std): GORDON MCNALLY ; MONALLY GORDON ; MURPHY PAUL A ; MCNALLY GORDON

Inventor(s): GORDON MONALLY

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; FETHERSTONHAUGH AND CO

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

9) Family number: 32491580 (JP2005305030A)

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Title: GAME MACHINE

Abstract: PROBLEM TO BE SOLVED: To provide a game machine in which balls hardly enter the same area even when the balls are shot in the same way from a shooting means with respect to the game machine which adopts a device to allow the balls shot from the shooting means to enter one of the plurality of areas. SOLUTION: A course change device 27 provided in the game machine comprises: a rotary member 35 to be driven and rotated by a motor 33; and a turning member 37 to be turned by force which is received from the rotary member 35. When a plunger 13 is operated so as to shoot the ball from a shooting tube 25, the ball is brought into contact with the turning member 37, changed in course, and discharged onto a game board 21. The discharge direction of the ball is changed in response to the turning angle of the turning member 37 even when the shooting speed of the ball from the shooting tube 25 is the same. Thus, the ball is not allowed to enter a specified hole 21c by aiming.

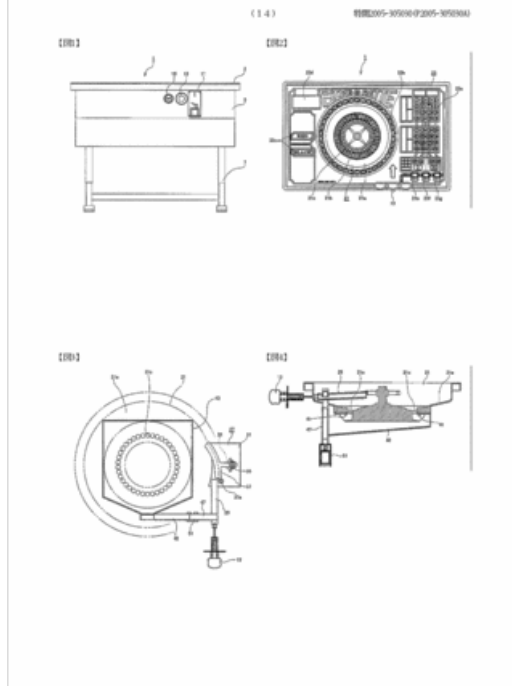
Classifications:

International (IPC 8-9): A63F3/06 A63F5/00

A63F5/02 (Advanced/Invention);

A63F3/06 A63F5/00 (Core/Invention)

International (IPC 1-7): A63F3/06 A63F5/00 A63F5/02

**Family:**

Publication number	Publication date	Application number	Application date
JP2005305030 A2	20051104	JP20040130055	20040426

Priority:

JP20040130055 20040426

Probable Assignee:

SANYUU KK

Assignee(s): (std):

SANYUU KK

Inventor(s): (std):

ITO YUJI

10) Family number: 12350632 (US6083105A)

© PatBase

Title: Computerized roulette playing apparatus for a single player

Abstract: A roulette playing machine which is designed for an individual player with the use of a single circulating playing ball. The machine comprises: an enclosed casing; a roulette wheel rotationally installed in the aforementioned casing and closed from above with a transparent cover that allows observation of the game but prevents physical contact with the playing ball; a drive mechanism for rotating the wheel that can be disengaged from the wheel to put it into free rotation after acceleration of the wheel, the wheel having circumferentially-arranged recesses for the playing balls and the inclined surface that ensures falling of the ball into one of the recesses when the wheel stops; electromagnetic mechanism for launching the ball in the direction of rotation of the wheel into a space between the wheel and the transparent cover; an electromechanical ball returning mechanism for returning the ball to the launching mechanism by means of an electromagnet and a lever system upon completion of one playing cycle; and a CPU that controls the operation of aforementioned mechanisms in accordance with the program. The apparatus also contains a sensor that immediately cancels the game cycle if the housing of the apparatus is intentionally or accidentally shaken to the extent that may change the game result. The invention also relates to a game based on the use of the aforementioned apparatus. The apparatus may be used in different modes with mechanical rotation of the roulette wheel or electronic simulation of the wheel on the display screen. The apparatus may standby in an attraction mode which is switched over to a game mode after loading money into a bill validator or a coin acceptor.

Classifications:**International (IPC 8-9):** A63F5/02 (Advanced/Invention);

A63F9/06 A63F9/24 (Advanced/Non-invention);

A63F5/00 (Core/Invention);

A63F9/06 A63F9/24 (Core/Non-invention)

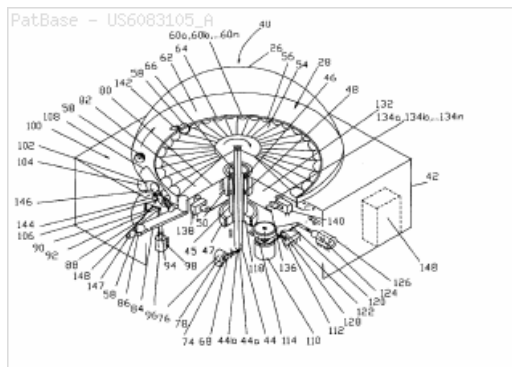
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A63F2007/345 A63F2009/2442 A63F2009/2457 G07F17/32

G07F17/3202

European: A63F5/00A G07F17/32 G07F17/32C K63F7/30H3

K63F7/30H5 K63F7/34R K63F9/06B K63F9/24N4C K63F9/24P2S

US: 273/142E 273/142F 273/142G 273/142R 463/16 463/17**Family:**

Publication number	Publication date	Application number	Application date
US6083105 A	20000704	US19980133901	19980813

Priority:

US19980133901 19980813

Probable Assignee: RONIN PAUL

Assignee(s): (std): RONIN PAUL

Inventor(s): (std): RONIN PAUL ; SPITKOVSKY MIKHAIL ; GALANTER JOZEF ; RONIN ILYA

11) Family number: 5176728 (US4632088A)

© PatBase

Title: Ball throwing apparatus

Abstract: A ball throwing apparatus has two opposed drive wheels, one on each side of an open-ended barrel. The peripheries of both drive wheels extend into the barrel in opposing fashion, the wheels being slightly offset so that the second periphery frictionally engages the ball before the first periphery does. This directs the ball initially on a path divergent from the barrel axis. The drive wheels are rotated at dissimilar speeds and/or the diameters of the wheels are not the same so that the peripheral speeds of the two drive wheels are different. This imparts a spin to the ball and gives it a curved flight path. The barrel is rotatably mounted to allow the barrel to be rotated about its longitudinal axis to any angular position. The barrel mounting is attached to a tripod, and the mounting can be adjusted to alter the attitude of the barrel to change the trajectory of the ball.

Classifications:

International (IPC 8-9): A63B69/40 (Advanced/Invention);
A63B69/40 (Core/Invention)

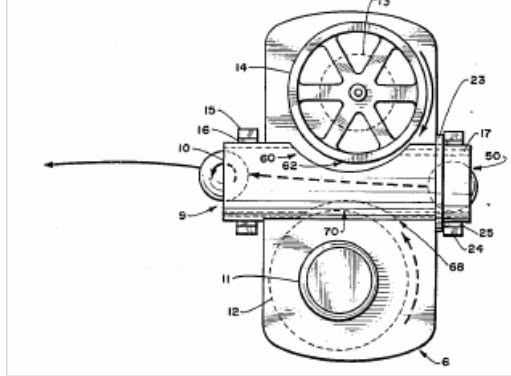
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CPC: A63B69/406

European: A63B69/40D

US: 124/6 124/78 273/26D

PatBase - US4632088_A



Family:

Publication number	Publication date	Application number	Application date
US4632088 A	19861230	US19830470430	19830228

Priority:

US19830470430 19830228

Probable Assignee: BRUCE NORMAN R

Assignee(s): (std): BRUCE NORMAN R

Inventor(s): (std): BRUCE NORMAN R

12) Family number: 28214754 (US2002098921A)

© PatBase

Title: Tennis practice device using simulation

Abstract: The device allows a beginner to learn the game, or an advanced player to develop new skills by simulating ball movement from the time that the opponent strikes the ball until the first bounce of the ball in the player's court. At this time a real ball is delivered at a speed and trajectory preset by the player. This simulation allows the practicing player to interact with the device in preparing stance and having a fluid back swing and swing of the tennis racket. The real ball having been struck by the player hits a large catch net located immediately in front of the device. The device can be used in an enclosure the size of a one car garage or small basement, allowing use during rain or winter months.

Classifications:

International (IPC 8-9): A63B69/40 (Advanced/Invention);
A63B69/38 (Advanced/Non-invention)

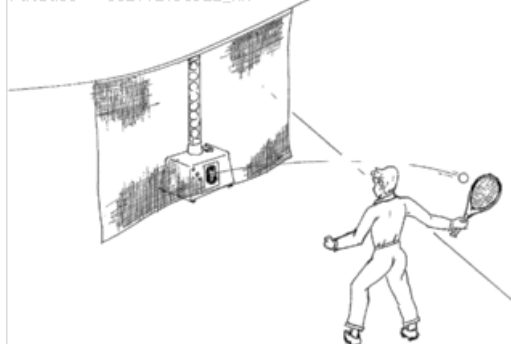
International (IPC 1-7): A63B67/00 A63B69/00 A63B69/38
F41A19/00

CPC: A63B69/38 A63B69/406

European: A63B69/40D K63B69/38

US: 124/34 124/54 273/445 473/431 473/459 473/459P

PatBase - US2002098921_AA



Family:

Publication number	Publication date	Application number	Application date
US2002098921 AA	20020725	US20010765046	20010119
US2002165048 AA	20021107	US20020180584	20020626
US6776732 BB	20040817	US20020180584	20020626

Priority:

US20010765046 20010119 US20020180584 20020626

Probable Assignee: DANIEL PETER

Assignee(s): DANIEL PETER ; PARKINSON PAUL

Inventor(s): (std): PARKINSON PAUL ; DANIEL PETER

Title: GAME MACHINE

Abstract: A game machine has a controller with one or more consoles for recording a player's bet. The machine also has a motor-driven, concave wheel with a plurality of circumferentially spaced compartments. Each compartment can hold temporarily and release the ball. The wheel can produce an outcome signal indicating ball rest position. The controller can signal whether a player's bet has won based on the outcome signal. The base supporting the wheel has a return track for sending the ball released from the wheel to one or more elevators. The elevator can lift the ball to an associated ball striker that can propel the ball back to the wheel. The machine can have one or more stations for propelling the ball.

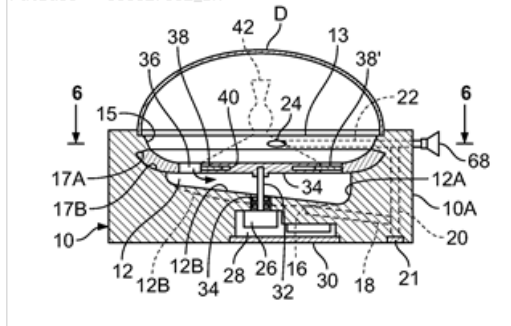
Classifications:

International (IPC 8-9): A63F13/00 A63F5/00 (Advanced/Invention)

CPC: A63F5/00 G07F17/3202

US: 273/142E 273/274 463/17 463/27

PatBase - US8517382_BH



Family:

Publication number	Publication date	Application number	Application date
US8517382 BA	20130827	US20120656813	20121022

Priority:

US20120656813 20121022

Probable Assignee:

PAGLIUCA HENRY

Assignee(s): (std):

PAGLIUCA HENRY

Inventor(s): (std):

PAGLIUCA HENRY

Title: A BALL LAUNCHER AND A BALL GAMING SYSTEM INCLUDING SUCH BALL LAUNCHER

Abstract: The present invention generally relates to a ball gaming system such as a roulette wheel apparatus, and in particular to a ball launcher for use in a gaming system such as a roulette wheel apparatus and to a gaming system such as a roulette wheel apparatus comprising the ball launcher, wherein the ball launcher includes a ball shuttle for transporting a ball from at least one ball-receiving station to at least one launch tube. According to the present invention, said ball shuttle is configured to move to a reject-ball station in response to a reject-ball signal to transport any old and/or defective ball to said reject-ball station instead of said at least one launch tube.

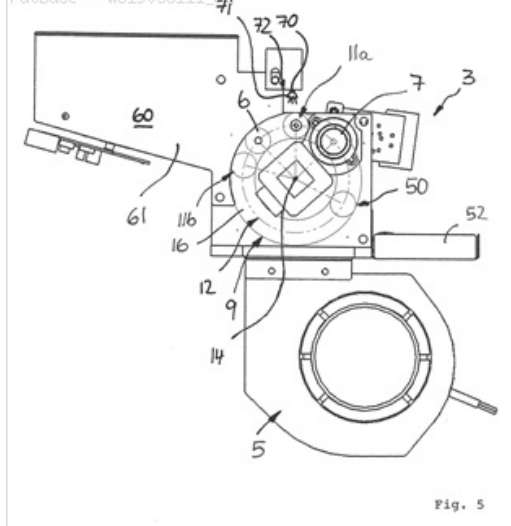
Classifications:

International (IPC 8-9): A63F5/00 (Advanced/Invention)

CPC: A63F5/00 A63F5/0005 A63F7/26 A63F7/34 A63F2007/308

A63F2007/345 A63F2009/2442

PatBase - WO19038111_A1



Family:

Publication number	Publication date	Application number	Application date
EP3446762 A1	20190227	EP20170187401	20170823
WO19038111 A1	20190228	WO2018EP71833	20180810

Priority:

EP20170187401 20170823

Probable Assignee: NOVOMATIC AG

Assignee(s): (std): NOVOMATIC AG

Inventor(s): (std): KULHANEK CHRISTIAN

Agent(s): THOMA MICHAEL; NOVOMATIC AG

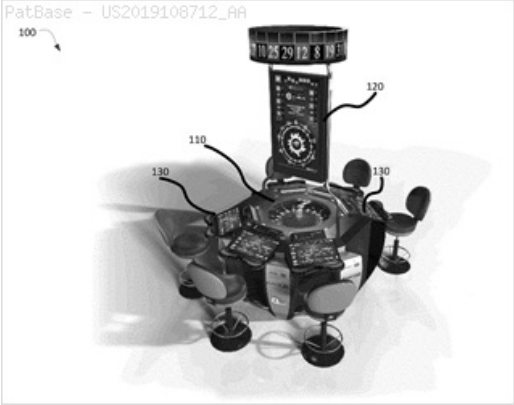
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15) Family number: 73927877 (US2019108712A) © PatBase

Title: ROULETTE GAME CYCLE OPTIMIZATION AND BALL SELECTION

Abstract: A roulette machine having a launch device including an automatic ball-change magazine is described. The magazine includes a revolving mechanism positioned over a plate with a through hole. The magazine stores a plurality of roulette balls for future use and facilitates changing a current game ball for a next ball once the current game ball has been used a predetermined number of times. A roulette ball change is facilitated by rotating the revolving mechanism sufficient to trap the current game ball and prevent it from being used, then rotating the revolving mechanism further to release the next ball from storage. The magazine further facilitates the utilization of a special ball for one game cycle in place of the current game ball and then switching back to the current game ball at the conclusion of the one game cycle.

Classifications:
International (IPC 8-9): A63F5/00 G07F17/32 (Advanced/Invention)
CPC: G07F17/322 G07F17/3258 G07F17/3211 G07F17/3288
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019108712 AA	20190411	US20180153120	20181005
WO19071224 A1	20190411	WO2018US54748	20181005

Priority:
US20170569125P 20171006 US20180153120 20181005

Probable Assignee: INTERBLOCK D D

Assignee(s): (std): INTERBLOCK D D

Assignee(s): INTERBLOCK DD

Inventor(s): (std): BERGANT URBAN ; KROSELJ PETER ; PECECNIK JOZE ; ZAVBI IVO ; ZABI IVO

Agent(s): CASEY TIMOTHY D ET AL

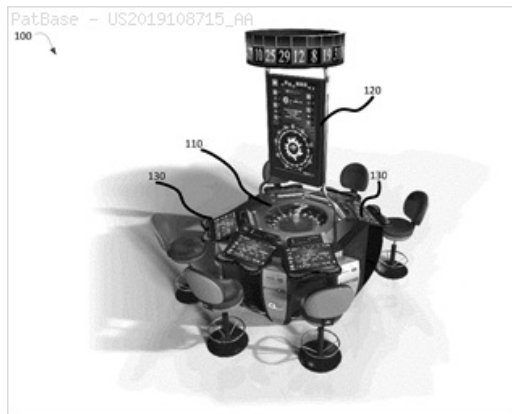
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16) Family number: 73927882 (US2019108715A) © PatBase

Title: ROULETTE GAME CYCLE OPTIMIZATION AND METHODS FOR ADJUSTING A ROULETTE WHEEL ROTATION SPEED

Abstract: A roulette wagering system is described that includes a roulette machine configured to operate live roulette games in which a roulette ball is launched into an angled annular track encircling a roulette wheel. A controller associated with the roulette machine may regulate one or more inertial values associated with the roulette ball. A bet close time of a betting window associated with the live roulette games may be determined based on the one or more inertial values associated. A rotation velocity of the roulette wheel may be adjusted subsequent to a bet close time of a live roulette games. Game cycle events may be detected using audio associated with the live roulette games and audible and/or visual effects may be generated based on the audio. A controller associated with the roulette machine may synchronizes the live roulette games operated by the roulette machine with live roulette games operated by one or more additional roulette machines. Bets may be placed based on a player selected betting risk level.

Classifications:
International (IPC 8-9): A63F9/24 G07F17/32 (Advanced/Invention)
CPC: G07F17/322 G07F17/3258 G07F17/3211 G07F17/3288
US: 1/1



Family:

Publication number	Publication date	Application number	Application date
US2019108715 AA	20190411	US20180153300	20181005
WO19071234 A1	20190411	WO2018US54759	20181005

Priority:

US20170569164P 20171006 US20180153300 20181005

Probable Assignee: INTERBLOCK D D

Assignee(s): (std): INTERBLOCK D D

Assignee(s): INTERBLOCK DD

Inventor(s): (std): BERGANT URBAN ; KROSELJ PETER

Agent(s): CASEY TIMOTHY D

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 3829909 (US4337945A)

© PatBase

Title: Roulette gaming apparatus

Abstract: A gaming apparatus in which a roulette wheel has a circular rim and a downwardly converging frustoconical bowl contained within the rim and joined thereto forming a track therewith for a roulette ball and a rotatable wheel head centered within the bowl at the bottom thereof and formed with a plurality of numbered compartments for receiving the roulette ball. An automatic roulette ball spinner having at least one guide tube is positioned along the rim for directing the roulette ball onto the track and is provided with a powered plunger for propelling the roulette ball through the guide tube. The guide tube is vertically moveable for lowering it onto the track to discharge the ball and then raising it to allow the ball to travel around the track uninterruptedly.

Classifications:

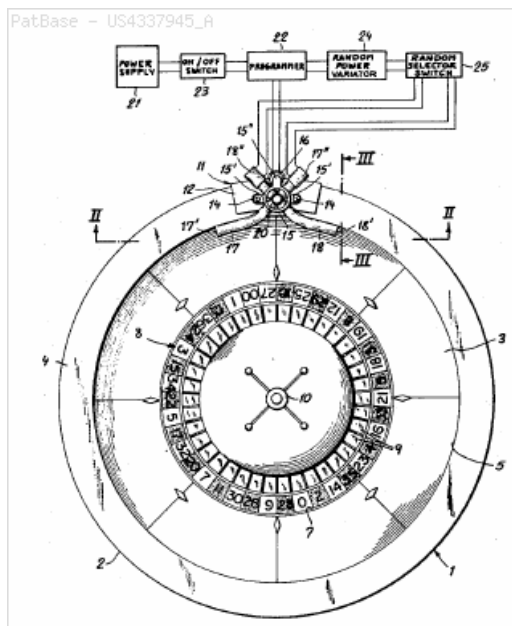
International (IPC 8-9): A63F5/04 A63F9/00 (Advanced/Invention); A63F11/00 A63F7/06 A63F9/04 (Advanced/Non-invention)

International (IPC 1-7): A63F5/04

CPC: A63F5/00 A63F9/0079 A63F2009/009 A63F7/066

European: A63F5/00 A63F9/00N K63F7/06D K63F7/24B K63F9/00N4P

US: 273/129.00S 273/129S 273/142.00E 273/142E



Family:

Publication number	Publication date	Application number	Application date
US4337945 A	19820706	US19800132085	19800320
US4391442 A	19830705	US19820345024	19820202

Priority:

US19800132085 19800320 US19820345024 19820202

Probable Assignee:

LEVY DAVID

Assignee(s): (std):

LEVY DAVID

Inventor(s): (std):

LEVY DAVID