Case 1:10-cv-01906-RMU Document 5 Filed 11/08/10 Page 1 of 1 ORIGINAL

AO 120 (Rev 08/10)		
	Mail Stop 8 .S. Patent and Trademark ( P.O. Box 1450 ndría, VA 22313-1450	REPORT ON THE Office FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
filed in the U.S. Dist		15 U.S C. § 1116 you are hereby advised that a court action has been for the District of Columbia on the following ion involves 35 U.S.C. § 292.)
DOCKEENO1906	DATE FILED 11/5/2010	U.S. DISTRICT COURT for the District of Columbia
PLAINTIFF		DEFENDANT
Bally Gaming, Inc.		Hon David Kappos, Under Secretary of Commerce for Intellectual Property and Director of the USPTO, Betty H Ringo and James Henry Pearson
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1 5,816,918	10/6/1998	Bally Gaming, Inc.
2 5,711,715	1/27/1998	Betty H. Ringo & James H. Pearson
3		
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In the above-entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY	
		Answer Cross Bill Other Pleading
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
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In the above-entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT	
	GSN Ex. 1003 GSN v. Bally Gaming U.S. Patent 5,816,918
ANGELA D. CAESAR	NOV 8 2010

Copy 1—Upon initiation of action, mail this copy to Director Copy 3—Upon termination of action, mail this copy to Director Copy 2—Upon filing document adding patent(s), mail this copy to Director Copy 4—Case file copy Page 1 of 171



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: KELLY, MATTHEW F. Serial No.: 08/746,755 Filed: 14N01996 GAU/Examiner: 3305/MANUEL, G. For: PRIZE REDEMPTION SYSTEM FOR GAMES



CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION

Assistant Commissioner for Patents Washington, D. C. 20231

Sir:

Please send all correspondence for this application as follows:

Paul L. Hickman HICKMAN & MARTINE, LLP P.O. Box 52037 Palo Alto, CA 94303-0746

Please direct any calls to Paul L. Hickman at (650) 470-7430.

Dated: August 25, 1998

Respectfully submitted,

HICKMAN & MARTINE, LLP

Paul L. Hickman Reg. No. 28,516

P.O. Box 52037 Palo Alto, CA 94303-0746 Telephone: (650) 470-7430 Facsimile: (650) 470-7440

Attorney Docket No. LAZ1P026 USA

#### PATENT

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Kelly et al.

Serial No.: 08/746,755

Filed: November 14, 1996

For: PRIZE REDEMPTION SYSTEM FOR GAMES

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11

I hereby certify that this correspondence is being hand delivered to: Commissioner of Patents and Trademarks, Washington, DC 20231 on Only 7, 1998

Group Art Unit: 3305

Examiner: G. Manuel

Commissioner of Patents and Trademarks Washington, D. C. 20231

Sir:

Please permit Annette Masiello and/or Rayline Pretit to inspect and make copies of the above-identified application. The Applicant paid the issue Fees on October 31, 1997 and submitted new formal drawings at the time of payment of the Issue Fees. Applicant has not received a Issue Notification, and wishes to determine the status of the application.

P.O. Box 52037 Palo Alto, CA 94303-0746 Telephone (650) 470-7430

Respectfully, submitted, HICKMAN & MARTINE/LLP

-1-

Paul L. Hickman Reg. No. 28,516

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	APR - 71998	HIL B PATENT
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In re application of:	KELLY, MATTHEW F.	4-23-48
Serial No.:	08/746,755	044
Filed:	14N01996	463/016.000
Patent No.:		
Issue Date:		
For: PRIZE REDEMPTION	SYSTEM FOR GAMES	

CHANGE OF ATTORNEY'S ADDRESS IN APPLICATION CHANGE OF FEE ADDRESSEE ADDRESS

Assistant Commissioner for Patents Washington, D. C. 20231

Sir:

MAR 23

RADEN

Please send all correspondence for this application as follows:

Paul L. Hickman HICKMAN & MARTINE P.O. Box 52037 Palo Alto, CA 94303-0746

Please direct any calls to Paul L. Hickman at (650) 493-1600.

Dated: March 18, 1998

Respectfully submitted,

HICKMAN & MARTINE

Paul L. Hickman

Registration No. 28,516

P.O. Box 52037 Palo Alto, CA 94303-0746 (650) 493-1600

Attorney Docket No. LAZ1P026 USA



PATENT

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

KELLY et al.

Serial No. 08/746,755

Filed: November 14, 1996

PRIZE REDEMPTION SYSTEM FOR For: GAMES

Examiner:	G. Manuel

3305 Art Unit:

Date: October 31, 1997

Issue Batch No. S07

Allowed: September 23, 1997

#### CERTIFICATE OF MAILING

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Kimberl

SEPARATE LETTER TO THE OFF Commissioner of Patents and Trademarks Box Issue Fee Washington, D.C. 20231

NOV 04 1997 08

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TSMAN VED

Sir:

Enclosed herewith are the formal drawings for the above-referenced case. If the draftsman has any questions concerning these drawings, please contact the undersigned at the number set forth below. If any fees are due in connection with the filing of these drawings, please charge such fees to deposit account 08-2120 (Order No. LAZ1P026).

Signed:

Respectfully submitted,

HICKMAN BEYER & WEAVER, LLP

James R. Riegel Reg. No. 36,651

P.O. Box 61059 Palo Alto, CA 94306 (650) 493-6400

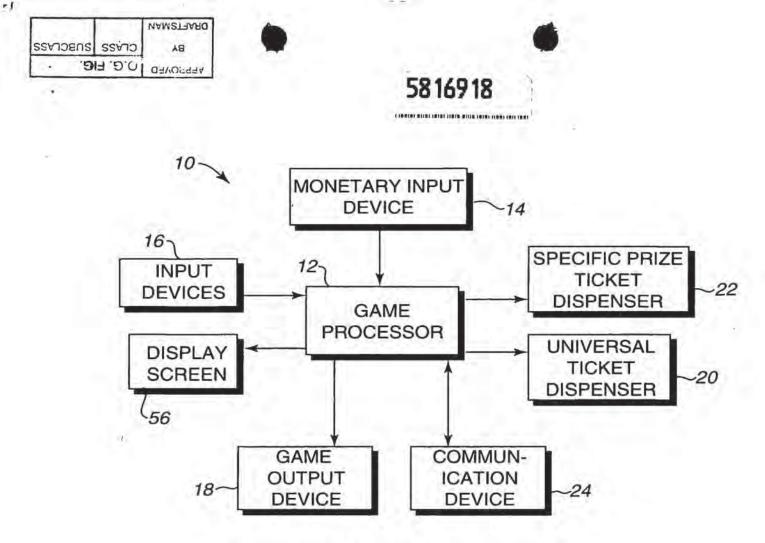
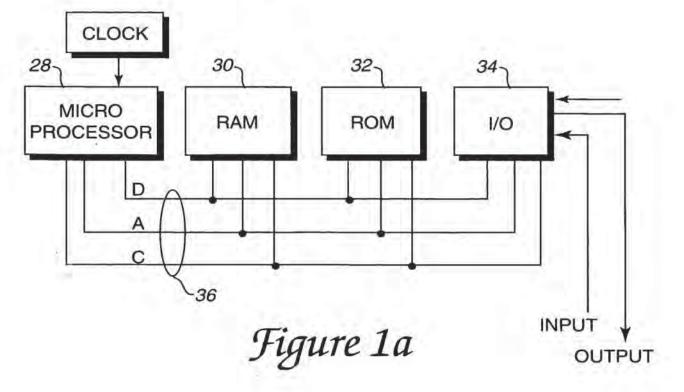


Figure 1



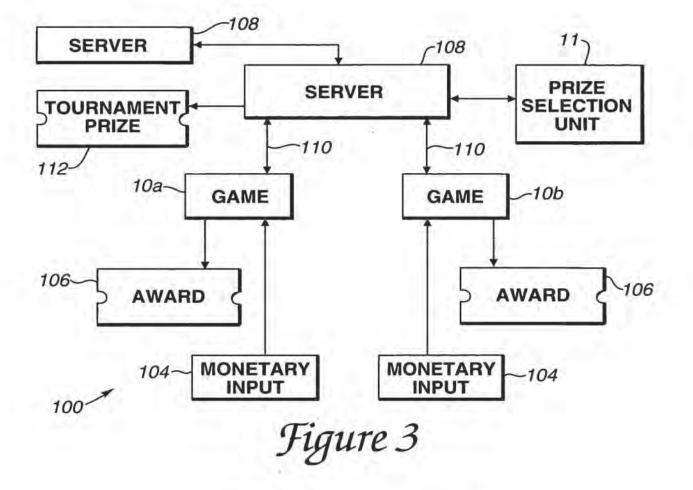
Page 6 of 171

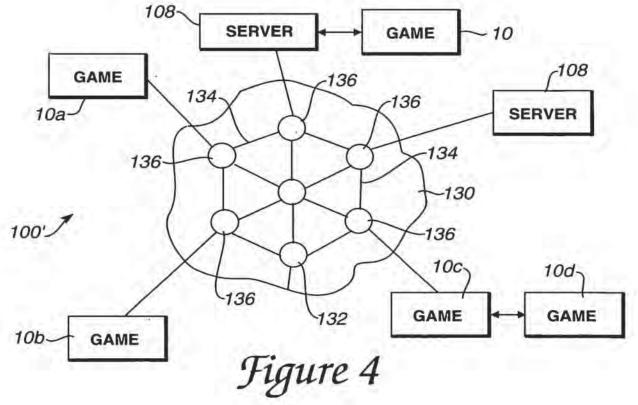
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GAME APPARATUS	54 Figure 2

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Page 8 of 171

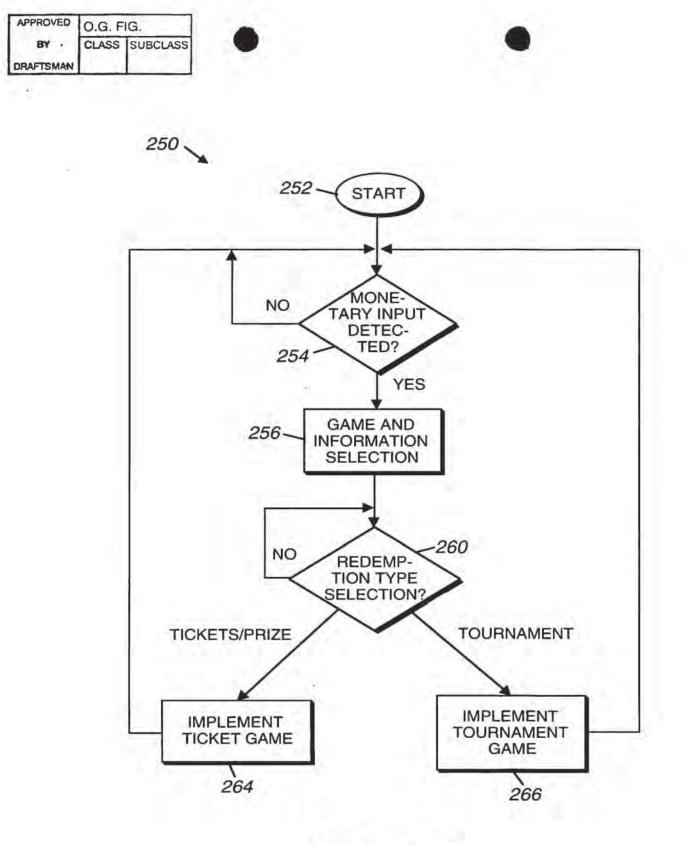
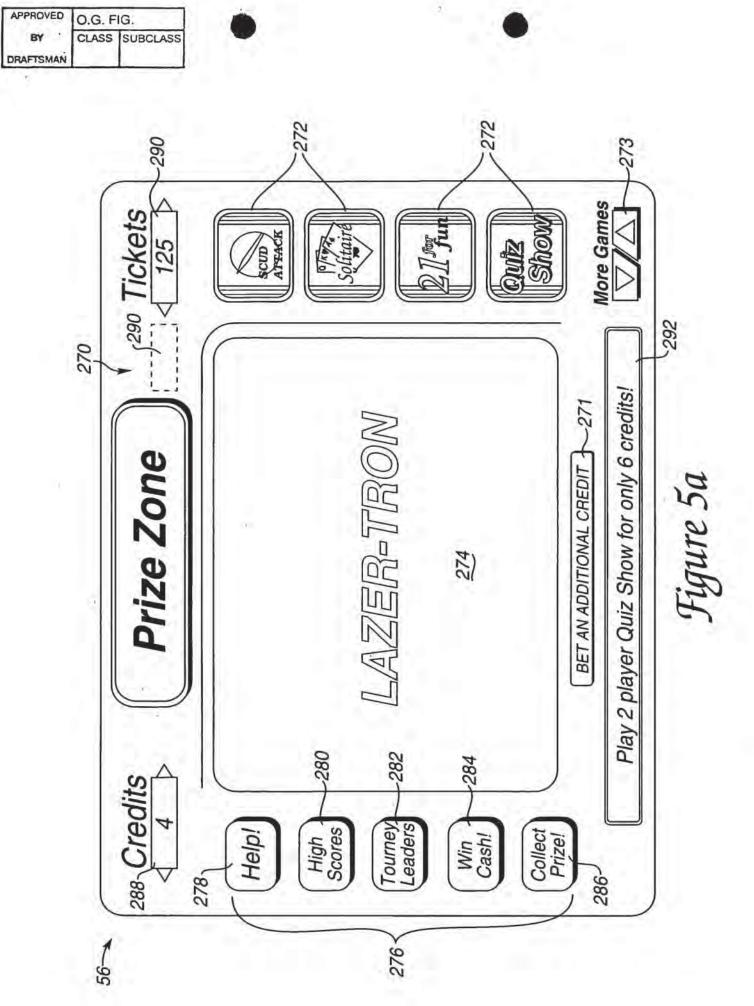
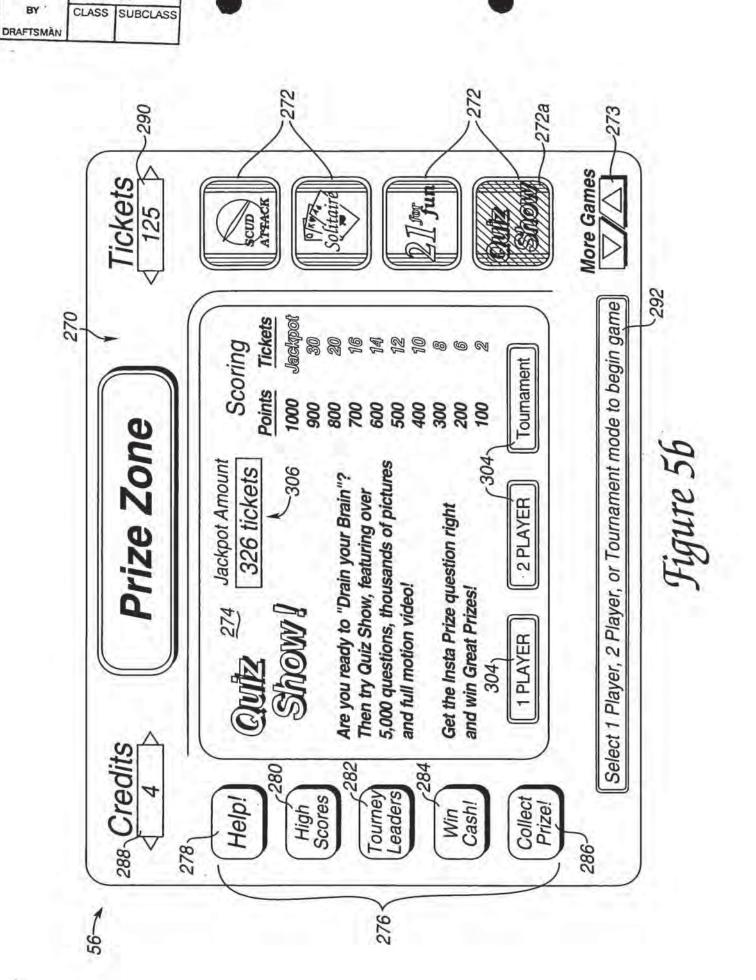


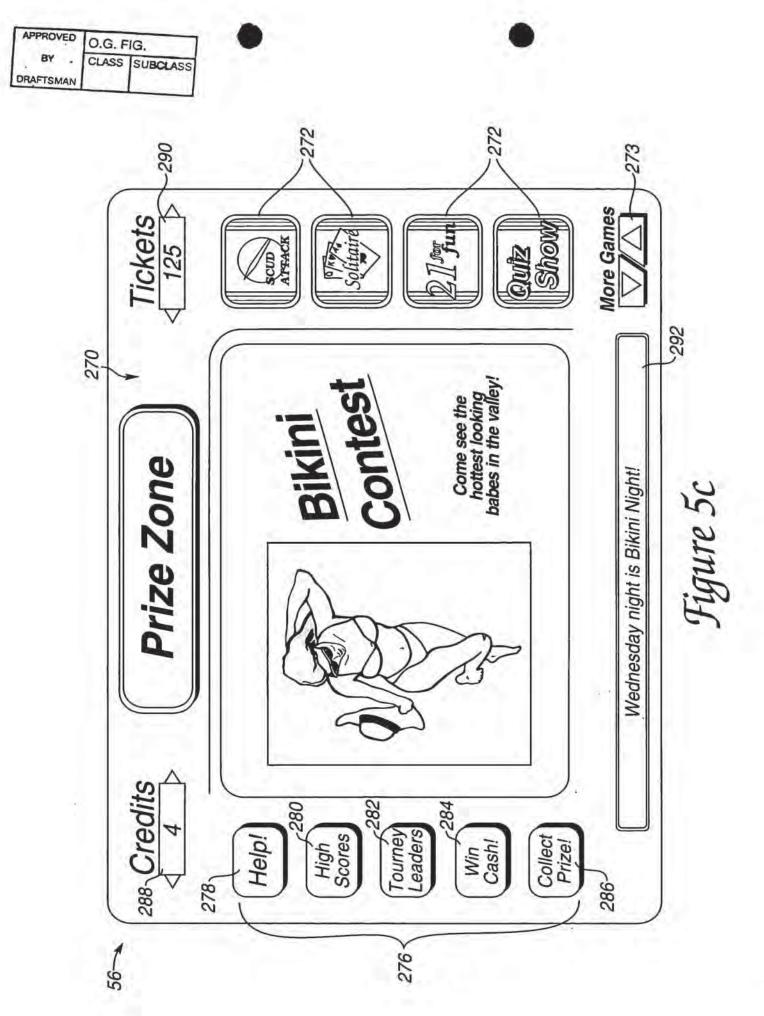
Figure 5

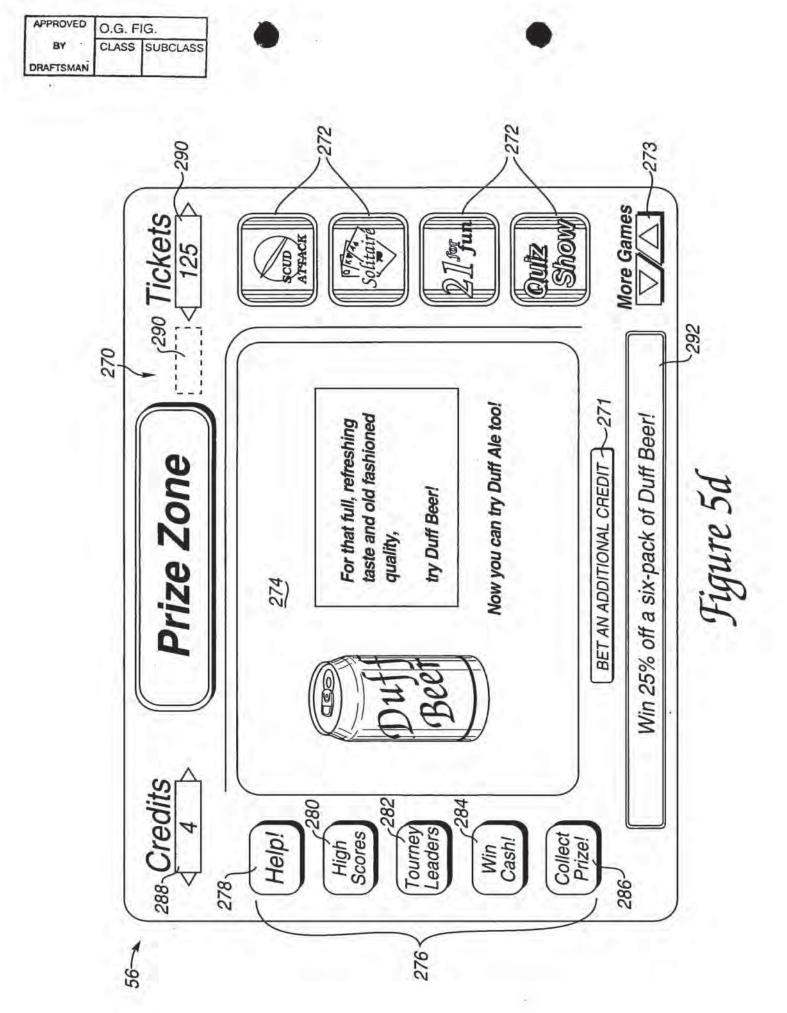


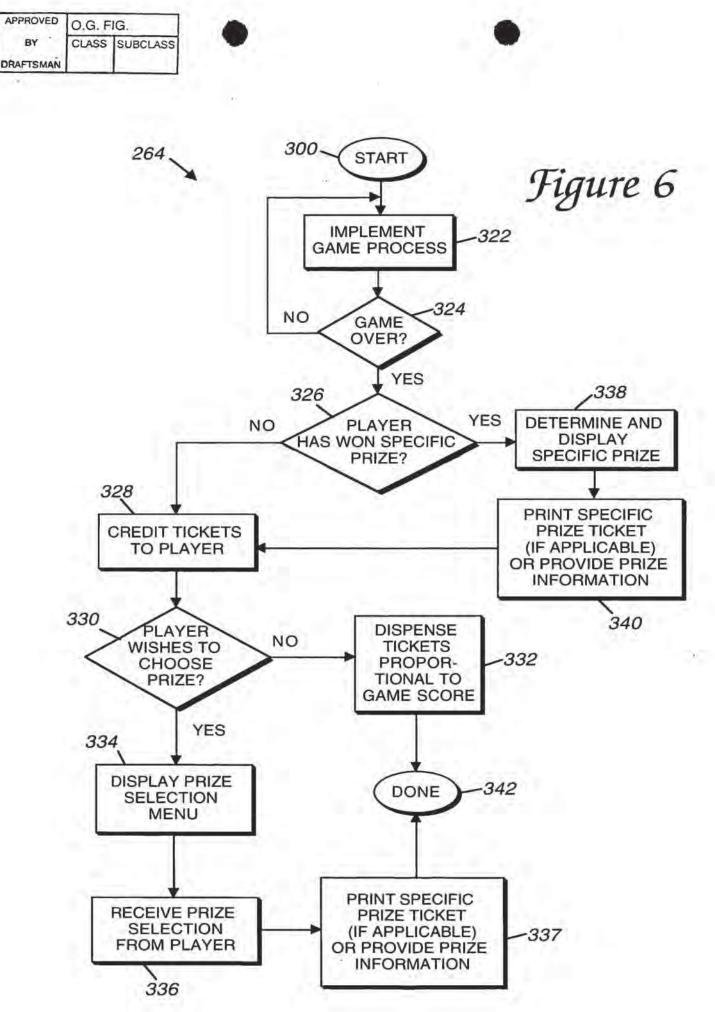


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O.G. FIG.





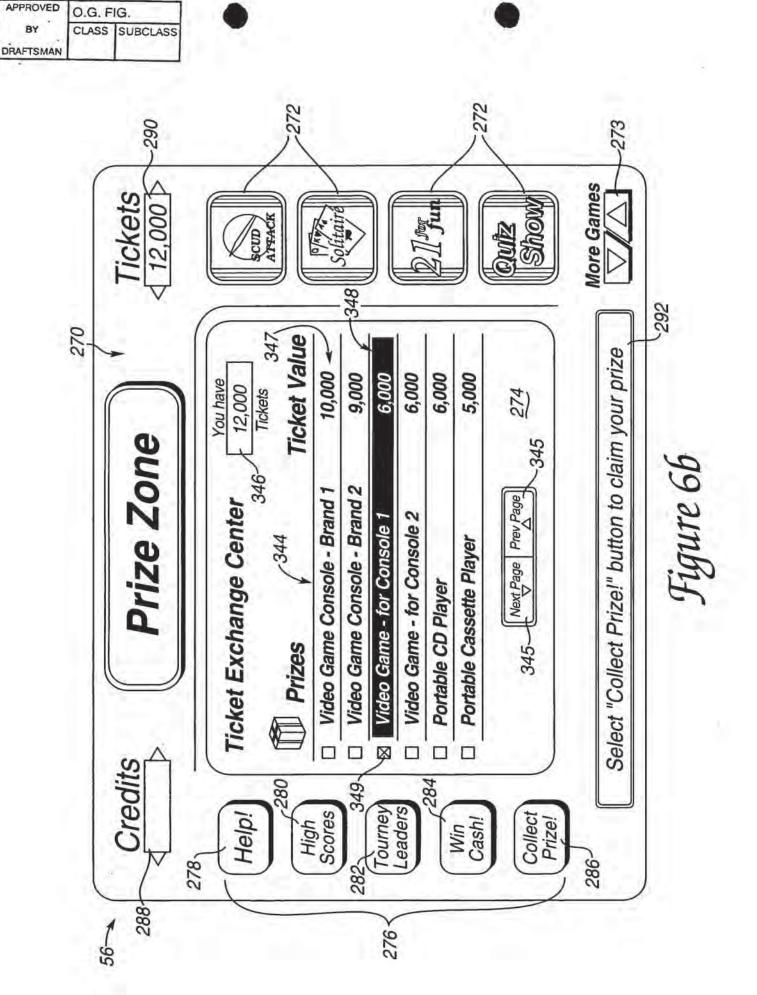


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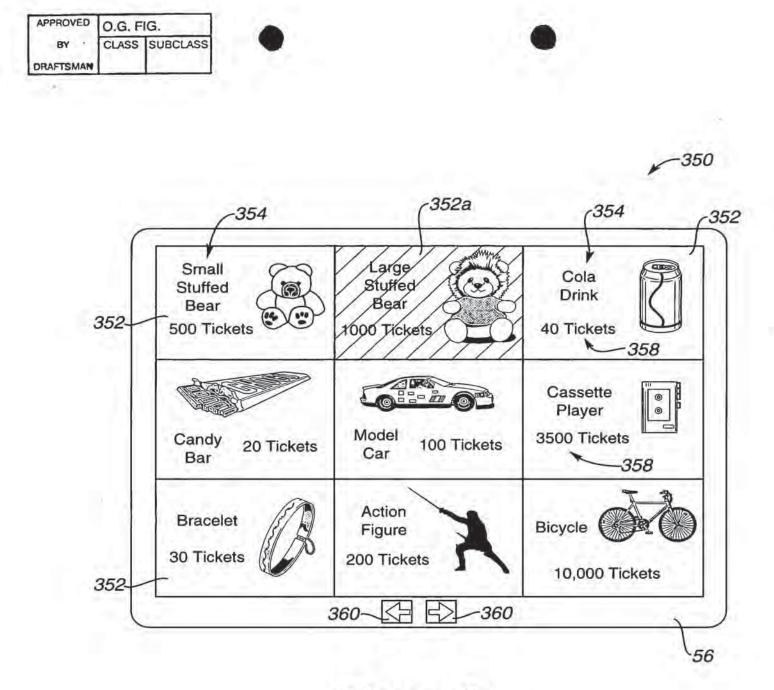
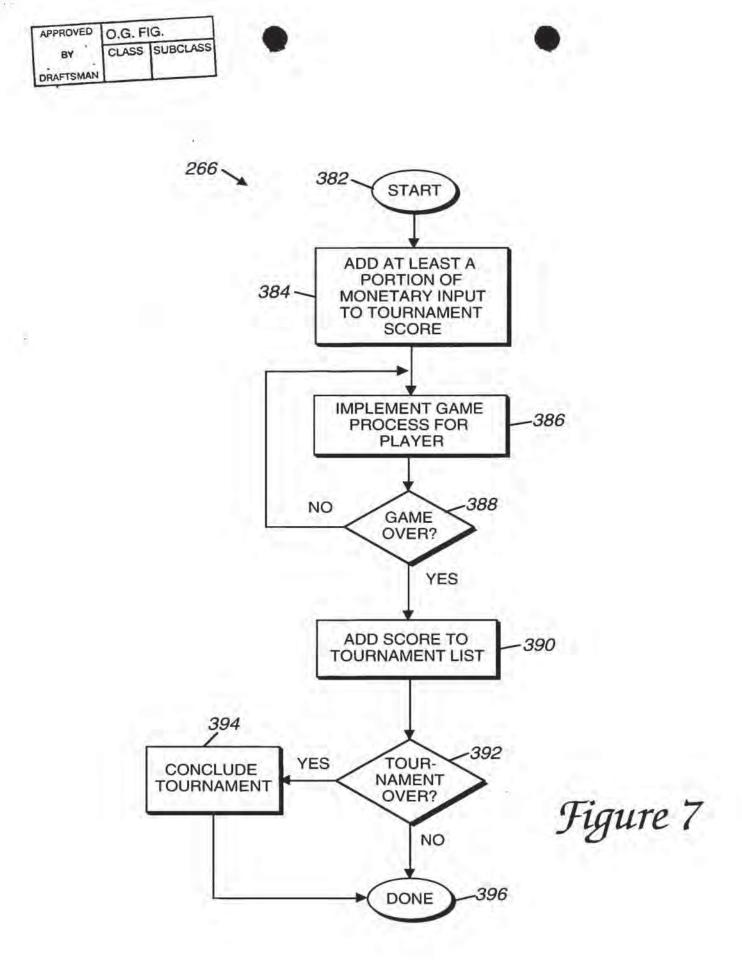


Figure 6c



APPROVED O.G. FIG. BY CLASS SUBCLASS DRAFTSMAN	•	<i>.</i>	•	
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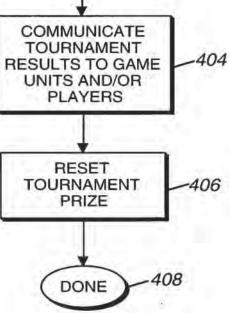
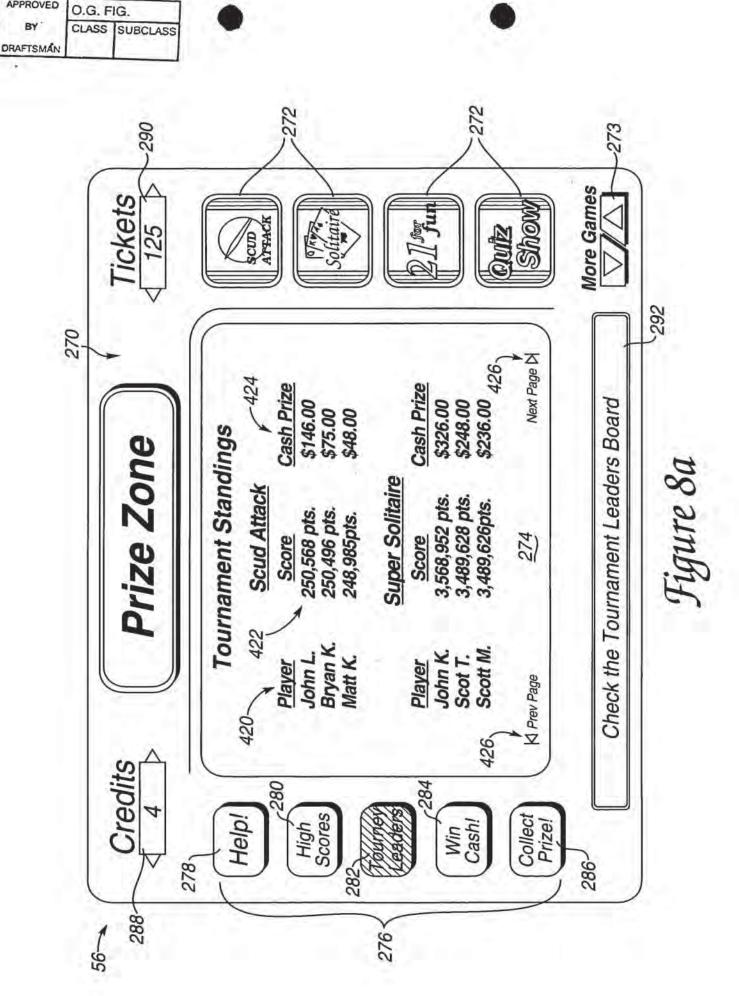
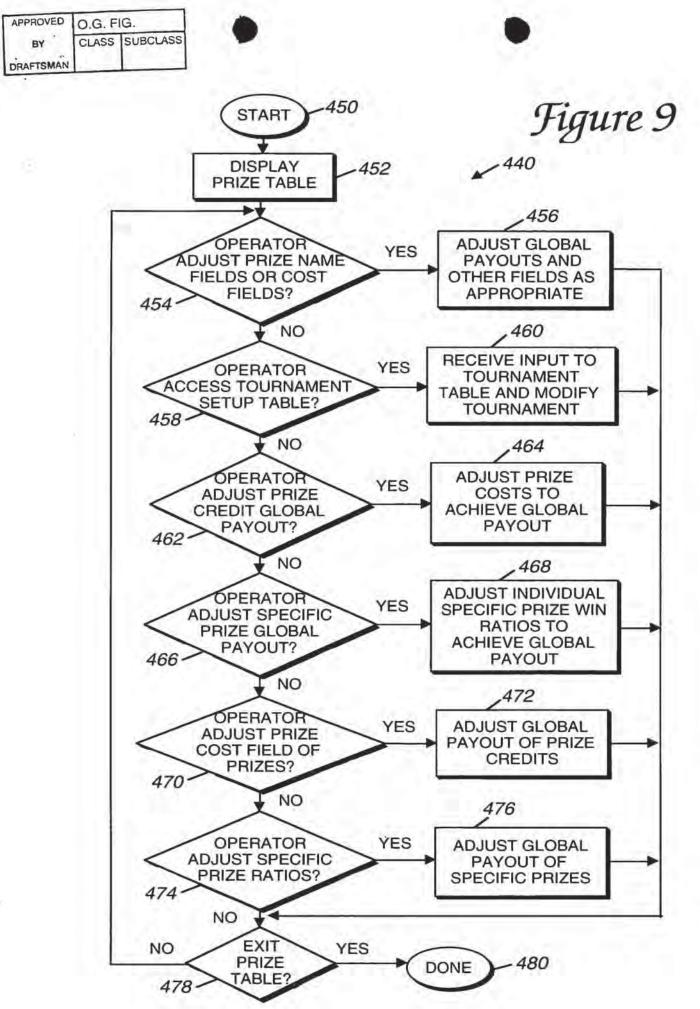


Figure 8

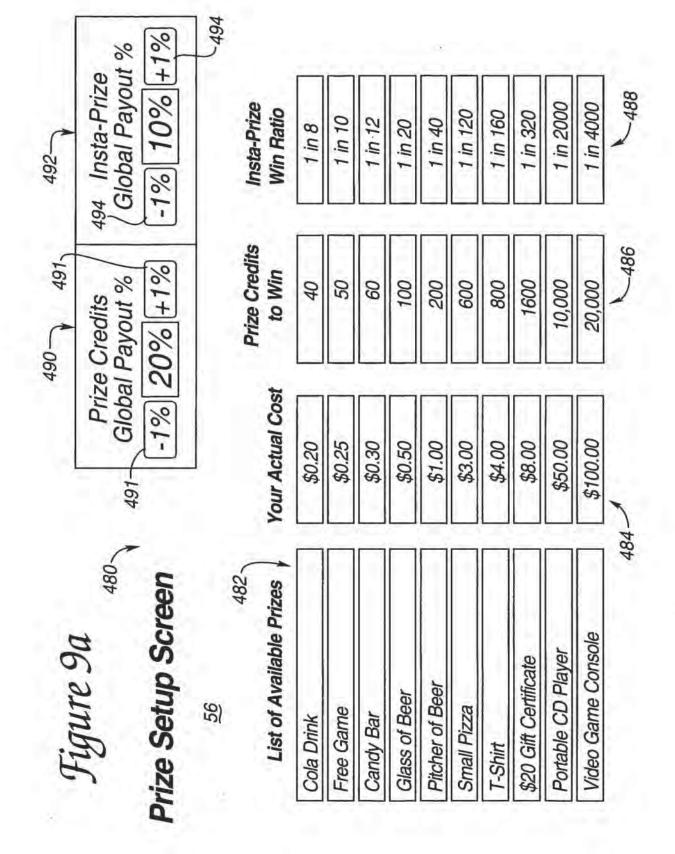


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Page 21 of 171

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Figure 96

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PAUL L HICKMAN     HICKMAN NEEVER ANN DEAVER     P. 0 BOX 61059     PALO ALTO CA 9430     POW 04 1997     October Al 199     October Al 1997     Oct	through 4 should be completed where appropriate. All further correspondence including the Issue F- Receipt, the Patent, advance orders and notification of maintenance fees will be mailed to the curre correspondence address as indicated unless corrected below or directed otherwise in Block 1, by ( specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" I maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)	ee mailings of the Issue Fee Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing. Certificate of Mailing I hereby certify that this Issue Fee Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above on
APPLICATION NO.       FILING DATE       TOTAL CLANK       EXAMINER AND GOLD ART UNIT       DATE MALED         08/746,755       11/14/96       077       MANUEL, G       3305       09/23/97         Pint Named Applicant       KELLY,       MATTHEW F.       TITLE OF INVENTION       PRIZE REDEMPTION SYSTEM FOR GAMES         ATTYS DOCKET NO.       CLASS-SUBCLASS       BATCH NO.       APPLIN TYPE       SMALL ENTITY       FEE DUE	PAUL L HICKMAN HICKMAN BEYER AND WEAVER P O BOX 61059 PALO ALTO CA 94304	Kimberly N. Lane (Depositor's name)
08/746,755       11/14/96       077       MANUEL, G       3305       09/23/97         Prior Named Applicant       KELLY,       MATTHEW F.       MATTHEW F.         The OF Applicant       RELLY,       MATTHEW F.       MATTHEW F.         ATTYS DOCKET NO.       CLASS-SUBCLASS       BATCH NO.       APPLIN TYPE       SMALL ENTITY       FEE DUE	APPLICATION NO. FILING DATE TOTAL CLAIMS	
Prior Named Applicant       KELLY,       MATTHEW F.         TITLEOF Applicant       PRIZE REDEMPTION SYSTEM FOR GAMES         ATTYS DOCKET NO.       CLASS-SUBCLASS       BATCH NO.       APPLN TYPE       SMALL ENTITY       FEE DUE		
Applicant       RELEY:       MATTHEW F.         TITLEOF       PRIZE REDEMPTION SYSTEM FOR GAMES         ATTYS DOCKET NO.       CLASS-SUBCLASS       BATCH NO.       APPLN. TYPE       SMALL ENTITY       FEE DUE       DATE DUE         3       LAZIPO26       463-016.000       S07       UTILITY       YES       \$645.00       12/23/9:         1. Change of correspondence address or indication of *Fee Address (37 CFR 1383).       2. For printing on the pater findingaps, list       Hickman Beyer & Weaver, I.         Use of PTO King() and Customer Number are momended, but not equinded.       10 (1) to annae to up to 3 registered patient atoms or agoins CR, atoms to lised, no mark with beginet and table.       Hickman Beyer & Weaver, I.         3       ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)       4. The following less are enclosed (make check payable to Commissioner of Patients and Tademarks):       3. Atvance Order - # of Copies	00/740,733 11/14/96 0/7 MHNUE	ic, a 3305 09723797
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(Authorized Signature)       (Date)         James R. Blegel, Reg. 36,651       10/31/97         NOTE; The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.       10/31/97         Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington D.C. 20231       The Section of the seccond of the section of the section of the se	PLEASE MOTE: Unless an assignee is identified below, no assignee data will appear on the patent.         Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the PTO or is being submitted under separate cover. Completion of this form is NOT a subsititue for filing an assignment.         (A) NAME OF ASSIGNEE       RLT. ACQUISITION, INC.         (B) RESIDENCE: (CITY & STATE OR COUNTRY)       Pleasanton, CA         Please check the appropriate assignee category indicated below (will not be printed on the patent)       Individual         (a) individual       K corporation or other private group entity       government	of Patents and Trademarks): Sissue Fee Advance Order - # of Copies 4b. The following fees or deficiency in these fees should be charged to: DEPOSIT ACCOUNT NUMBER08-2120 (ENCLOSE AN EXTRA COPY OF THIS FORM) Sissue Fee Advance Order - # of Copies10
James R. Blegel, Reg. 36,651       10/31/97         NOTE; The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.       10/31/97         Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington D.C. 20231		plication identified above.
to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND FEES AND THIS FORM TO: Box Issue Fee, Assistant Commissioner for Patents, Washington D.C. 20231	James R. Blegel, Reg. 36,651       10/31/97         NOTE: The Issue Fee will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the Patent and Trademark Office.       10/31/97         Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending on the needs of the individual case. Any comments on the amount of time required	
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UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

# NOTICE OF ALLOWANCE AND ISSUE FEE DUE

33M1/0923

PAUL L HICKMAN HICKMAN BEYER AND WEAVER P O BOX 61059 PALO ALTO CA 94306

APPLICA	TION NO. F	ILING DATE	TOTAL CLAIMS	EXAMINER AND GROUP ART UNIT	C	ATE MAILED
4.1.5	08/746,755	11/14/96	6 077	MANUEL, G	3305	09/23/9
First Named Applicant	KELLY,		MA	TTHEW F.		

ATTY'S DO	DCKET NO.	CLASS-SUBC	ASS	BATCH NO.	APPLN.	TYPE	SMALL E	ENTITY	FEE DUE	DATE DUE
з	LAZ1P0	26	463	-016.000	S07	UTIL	ITY	YES	\$645.00	12/23/9

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED.

THE ISSUE FEE MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED.</u>

# HOW TO RESPOND TO THIS NOTICE:

- I. Review the SMALL ENTITY status shown above. If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:
  - A. If the status is changed, pay twice the amount of the FEE DUE shown above and notify the Patent and Trademark Office of the change in status, or
  - B. If the status is the same, pay the FEE DUE shown above.

If the SMALL ENTITY is shown as NO:

A. Pay FEE DUE shown above, or

- B. File verified statement of Small Entity Status before, or with, payment of 1/2 the FEE DUE shown above.
- II. Part B-Issue Fee Transmittal should be completed and returned to the Patent and Trademark Office (PTO) with your ISSUE FEE. Even if the ISSUE FEE has already been paid by charge to deposit account, Part B Issue Fee Transmittal should be completed and returned. If you are charging the ISSUE FEE to your deposit account, section "4b" of Part B-Issue Fee Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give application number and batch number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

#### IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PATENT AND TRADEMARK OFFICE COPY

PTOL-85 (REV. 10-96) Approved for use through 06/30/99. (0651-0033)

	Application No.	Applicant(s)		
Notice of Allowability	08/746,755		Kelly et	al
Notice of Anowability	Examiner George Ma	nuel	Group Art Unit 3305	
All claims being allowable, PROSECUTION ON THE M herewith (or previously mailed), a Notice of Allowand mailed in due course.				
IThis communication is responsive to Paper #9, find	led 7/14/97			
X The allowed claim(s) is/are 42-120				
The drawings filed on are a	acceptable.			
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A SHORTENED STATUTORY PERIOD FOR RESPONS <b>THREE MONTHS</b> FROM THE "DATE MAILED" of this ABANDONMENT of this application. Extensions of ti I Note the attached EXAMINER'S AMENDMENT or that the oath or declaration is deficient. A SUBST	s Office action, Failure to ime may be obtained under NOTICE OF INFORMAL A	timely comp the provisi	ply will result in ions of 37 CFR N, PTO-152, wh	1.136(a).
I Applicant MUST submit NEW FORMAL DRAWING	35			
X because the originally filed drawings were dec		oformal.		
including changes required by the Notice of Dr to Paper No			PTO-948, attac	hed hereto or
including changes required by the proposed drapproved by the examiner.	awing correction filed on	Jul 14,	<u>1997</u> , whi	ch has been
including changes required by the attached Ex.	aminer's Amendment/Cor	nment.		
Identifying indicia such as the application number drawings. The drawings should be filed as a sepa Draftsperson.	(see 37 CFR 1.84(c)) sho arate paper with a transm	ould be writte ittal lettter a	en on the revers ddressed to the	e side of the Official
Note the attached Examiner's comment regarding	REQUIREMENT FOR THE	DEPOSIT O	F BIOLOGICAL	MATERIAL.
Any response to this letter should include, in the upp CODE/SERIAL NUMBER). If applicant has received a and DATE of the NOTICE OF ALLOWANCE should al	Notice of Allowance and	APPLICATIO Issue Fee Du	N NUMBER (SE Je, the ISSUE B	RIES ATCH NUMBER
Attachment(s)				
Notice of References Cited, PTO-892				
X Information Disclosure Statement(s), PTO-144	9, Paper No(s). 6			
Notice of Draftsperson's Patent Drawing Review				
Notice of Informal Patent Application, PTO-15.	2			
Interview Summary, PTO-413				
Examiner's Amendment/Comment				<. 1. 1
<ul> <li>Examiner's Comment Regarding Requirement to</li> <li>Examiner's Statement of Reasons for Allowand</li> </ul>		laterial	PÁT	ORGE MANUEL ENT EXAMINER RT UNIT 3305

Notice of Allowability

Part of Papprage 26 of 171

St	forma atemer	tion Disclosu at By Applica Sheets if Nece	nt essary)	Atty Docket No.: LAZ1P026 Applicant: Matthew F. Kelly et Filing Date: November 14, 1996	saljul 1	Serie No. 08/746,75 Group: 3304	<b>)</b>
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Initial	No.	Patent No.	Date	Patentee	Class	class	Date 10/15/91
M	A	5,227,874	07/13/93	Von Kohorn	358	84	
	D	5,324,035	06/28/94	Morris et al.	273	138A	12/01/92
1/	B	0,021,000					
-1	C	5,475,205	12/12/95	Behm et al.	235	375	06/22/94
	C	5,475,205	12/12/95	Behm et al. Rusnak	235	375 138R	06/22/94
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		06/07/94	Kelly et al.	273	122R	07/09/93
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		and the second second second second	Boylan et al.	273	139	09/16/92
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	G H I J	F         5,365,575           G         5,318,298           H         5,292,127           I         5,286,061           J         5,265,877           K         5,118,109	G         5,318,298         06/07/94           H         5,292,127         03/08/94           I         5,286,061         02/15/94           J         5,265,877         11/30/93	G         5,318,298         06/07/94         Kelly et al.           H         5,292,127         03/08/94         Kelly et al.           I         5,286,061         02/15/94         Behm           J         5,265,877         11/30/93         Boylan et al.	G         5,318,298         06/07/94         Kelly et al.         273           H         5,292,127         03/08/94         Kelly et al.         273           I         5,286,061         02/15/94         Behm         283           J         5,265,877         11/30/93         Boylan et al.         273	G         5,318,298         06/07/94         Kelly et al.         273         122R           H         5,292,127         03/08/94         Kelly et al.         273         138R           I         5,286,061         02/15/94         Behm         283         95           J         5,265,877         11/30/93         Boylan et al.         273         139

#### Foreign Patent or Published Foreign Patent Application

Examiner	1	Document	Publication	Country or	1	Sub-	Trans	slation
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#### **Other Documents**

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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

# Pg. 1 of 6

Form 1449 (Modified)	Atty Docket No.: LAZ1P026	Serial No.: 08/746,755
Information Disclosure Statement By Applicant	Applicant: Matthew F. Kelly et al.	
(Use Several Sheets if Necessary)	Filing Date: November 14, 1996	Group: 3304

#### **U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
M	A	5,057,915	10/15/91	Von Kohorn	358	84	10/25/90
	B	5,034,807	07/23/91	Von Kohorn	358	84, 0	10/19/89
2 - 1	C	4,494,197	01/15/85	Troy et al.	364	OII P	22/22/84
	D	4,398,708	08/16/83	Goldman et al.	270	18	12/17/79
	E	4,191,376	03/04/80	Goldman et al.	273	139	01/28/77
	F	5,280,909	01/25/94	Tracy	178	1138A4	992/06 92
	G	5,249,800	10/05/93	Hilgendorf et al.	273	[138A	11/12/92
	H	5,016,880	05/21/91	Berge	2132	138A	02/16/90
	I	4,837,728	06/06/89	Barrie et al.	364	412	25/84
	J	5,286,023	02/15/94	Wood	273	ABEMA	11/20/91
in	K	5,048,833	09/17/91	Lamle	273	138A	03/01/90

# Foreign Patent or Published Foreign Patent Application

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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified) Information Disclosure Statement By Applicant (Use Several Sheets if Necessary)			Atty Docket No.: LAZ1P026 Applicant: Matthew F. Kelly et Filing Date: November 14, 1996	10	Serial No.: 08/746,75: 1 P Group: 3304		
			U.S. Pater	nt Documents	o JUL	1 4 1997	1
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IM	A	4,240,635	12/23/80	Brown	275	EMARA	03/09/79
- uf	B	4,964,638	10/23/90	Ishida	273	138A	05/16/89
	C	4,743,024	05/10/88	Helm et al.	273	143R	12/06/85
	D	2,660,434	11/24/53	Durant	273	121	07/16/51
	E	5,184,821	02/09/93	Korenek	273	138A	01/07/92
	F	4,948,133	08/14/90	Helm et al.	273	85G	06/08/89
	G	2,141,580	12/27/38	White	273	95	05/18/36
	H	1,652,071	12/06/27	Tsujing			05/20/27
y	1	1,543,318	06/23/25	Cardoza	1.		07/29/24
	J	941,194	11/23/09	Hamilton	-		06/05/07
in	K	2,799,500	07/16/57	Zekowski	273	1	09/26/55

# Foreign Patent or Published Foreign Patent Application

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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Form 1449 (Modified)	Atty Docket No.: LAZ1P026	Serial No.: 08.046,754 1997
Information Disclosure	Applicant: Matthew F. Kelly et al.	10
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(Use Several Sheets if Necessary)	November 14, 1996	330 ADEMART

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#### **U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
M	A	3,975,022	08/17/76	Figuero	273	141A	02/26/75
1	B	3,796,433	03/12/74	Fraley et al.	273	138A	06/14/71
	C	4,586,707	05/06/86	McNeight et al.	273	1R	04/29/85
	D	4,636,951	01/13/87	Harlick	364	412	04/30/84
	E	4,652,998	03/24/87	Koza et al.	364	412	01/04/84
	F	4,842,278	06/27/89	Markowicz	273	138A	06/10/88
	G	4,854,590	08/08/89	Jolliff et al.	273	138A	05/08/87
	H	5,007,649	04/16/91	Richardson	273	237	03/28/89
	I	5,042,809	08/27/91	Richardson	273	138A	11/20/90
1	J	5,083,271	01/21/92	Thacher et al.	364	411	08/03/88
in	K	5,116,055	05/26/92	Tracy	273	138A	07/02/91

# Foreign Patent or Published Foreign Patent Application

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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form 1449 (Modified)	Atty Docket No.: LAZ1P026	Serial No.: 08/746,755
Information Disclosure Statement By Applicant	Applicant: Matthew F. Kelly et al. Filing Date:	Group:
(Use Several Sheets if Necessary)	November 14, 1996	3304 O P

### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- JU class	Filing 997 Date
U.	A	5,326,104	07/05/94	Pease et al.	273	13.4	02/07/92
	B	5,351,970	10/04/94	Fioretti	273	439	09/16/98
	C	5,359,510	10/25/94	Sabalianskas	364	410	UUUUUUUUUU
	D	5,417,424	05/23/95	Snowden et al.	273	138A	09/28/93
	E	5,429,361	07/04/95	Raven et al.	273	138A	09/23/91
	F	5,462,275	10/31/95	Lowe et al.	273	94	12/20/91
	G	5,476,259	12/19/95	Weingardt	273	85CP	11/12/93
	H	5,494,294	02/27/96	Cappetta	273	269	10/24/94
	+ Ť	5,551,692	09/03/96	Pettit et al.	273	143R	08/02/94
1000	T	2,043,166	06/02/36	Hart et al.	273	138	02/14/35
m	K	2,926,915	03/01/60	Johns	273	95	01/31/58

# Foreign Patent or Published Foreign Patent Application

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Form 1449 (Modified)	Atty Docket No.: LAZ1P026	Serial No.: 08/746,755
Information Disclosure Statement By Applicant	Applicant: Matthew F. Kelly et al.	
(Use Several Sheets if Necessary)	Filing Date: November 14, 1996	Group: 3304

#### **U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
M	A	5,137,278	08/11/92	Schilling et al.	273	118A	193/14/9
	B	5,511,794	04/30/96	Katamoto	273	440	08/31/94
	C	5,042,810	08/27/91	Williams	273	142	02/09/90
	D	5,342,049	08/30/94	Wichinsky et al.	273	1 98 1	03/03/93
in	E	5,344,144	09/06/94	Canon	273	188A	109/2019997
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# Foreign Patent or Published Foreign Patent Application

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Initial	No.						Yes	No
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

PATENT

# In the United States Portent and Trademark Office

1997

JUL

Applicant: Kelly et al. Applicant's Ref: LAZ1P026 Serial No: 08/746,755 Filed: 11/14/96 Title: Prize Redemption System for Games

Examiner: G. Manuel Group Art Unit: 3305

#### CERTIFICATE OF MAILING

5,

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231 on July 11, 1997.

Signed:

MENDN

AUG 1 2 1997 GROUP 3300

RECEIVEL

Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

In response to the Office Action dated 6/19/97, please amend the above identified patent application as follows:

In the Drawings:

Please amend the drawings as indicated in red on the enclosed photocopies.

Page 35, line 17, replace "as described above" with - which is a R <sup>2</sup> . reference to step 337.		
Page 32, line 23, change "344" to 362 Page 32, line 24, change "345" to 364 Page 32, line 28, change "346" to 366 Page 32, line 29 and line 36, change "347" to 368 Page 32, line 32, change "348" to 370 Page 32, line 35 and line 37, change "349" to 372 Page 34, line 11, change "340" to 337 Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with which is of Page 35, line 19, replace "is then complete at 340." with then com- Page 35, line 25, after "steps" insert 337, In the Claims: All pending claims are presented below for the convenience of the E	1.0	
Páge 32, line 23, change "344" to 362         Páge 32, line 24, change "345" to 364         Páge 32, line 28, change "346" to 366         Page 32, line 29 and line 36, change "347" to 368         Page 32, line 32, change "348" to 370         Page 32, line 35 and line 37, change "349" to 372         Page 34, line 11, change "340" to 337         Page 35, line 17, replace "as described above" with which is of         Page 35, line 17, replace "is then complete at 340." with then complete at 340." with then complete at 340." with then complete at 340.         Page 35, line 25, after "steps" insert 337,         In the Claims:         All pending claims are presented below for the convenience of the E.	1	
Page 32, line 23, change "344" to 362 Page 32, line 24, change "345" to 364 Page 32, line 28, change "346" to 366 Page 32, line 29 and line 36, change "347" to 368 Page 32, line 32, change "348" to 370 Page 32, line 35 and line 37, change "349" to 372 Page 34, line 11, change "340" to 337 Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with which is of Page 35, line 19, replace "is then complete at 340." with then comp Page 35, line 25, after "steps" insert 337, Page 35, line 25, after "steps" insert 337,	· ·	
Page 32, line 24, change "345" to 364         Page 32, line 28, change "346" to 366         Page 32, line 29 and line 36, change "347" to 368         Page 32, line 32, change "348" to 370         Page 32, line 35 and line 37, change "349" to 372         Page 34, line 11, change "340" to 337         Page 35, line 12, after "player" insert , and the process is then compress and secret above with which is of the secret above.         Page 35, line 17, replace "as described above" with which is of the secret above.         A <sup>-2</sup> Page 35, line 19, replace "is then complete at 340." with then complete above.         A <sup>-3</sup> described above.         Page 35, line 25, after "steps" insert 337,         In the Claims:         All pending claims are presented below for the convenience of the Experiment.		In the Specification:
Page 32, line 24, change "345" to 364         Page 32, line 28, change "346" to 366         Page 32, line 29 and line 36, change "347" to 368         Page 32, line 32, change "348" to 370         Page 32, line 35 and line 37, change "349" to 372         Page 34, line 11, change "340" to 337         Page 35, line 12, after "player" insert , and the process is then compress and secret above with which is of the secret above.         Page 35, line 17, replace "as described above" with which is of the secret above.         A <sup>2</sup> Page 35, line 19, replace "is then complete at 340." with then control above.         A <sup>32</sup> Page 35, line 25, after "steps" insert 337,         In the Claims:         All pending claims are presented below for the convenience of the Experiment.		Page 32, line 23, change "344" to 362
Page 32, line 28, change "346" to 366 Page 32, line 29 and line 36, change "347" to 368 Page 32, line 32, change "348" to 370 Page 32, line 35 and line 37, change "349" to 372 Page 34, line 11, change "340" to 337 Page 35, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with which is of Page 35, line 19, replace "is then complete at 340." with then comp A <sup>-2</sup> described above. Page 35, line 25, after "steps" insert 337, In the Claims: All pending claims are presented below for the convenience of the E		이 이 것 같은 것
Page 32, line 29 and line 36, change "347" to 368 Page 32, line 32, change "348" to 370 Page 32, line 35 and line 37, change "349" to 372 Page 34, line 11, change "340" to 337 Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with which is of Page 35, line 19, replace "is then complete at 340." with then con- Page 35, line 19, replace "is then complete at 340." with then con- Page 35, line 25, after "steps" insert 337, Page 35, line 25, after "steps" insert 337,		
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Page 32, line 35 and line 37, change "349" to 372 Page 34, line 11, change "340" to 337 Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with which is of reference to step 337. Page 35, line 19, replace "is then complete at 340." with then cond A 3 described above. Page 35, line 25, after "steps" insert 337, In the Claims: All pending claims are presented below for the convenience of the E	/	
Page 34, line 11, change "340" to 337 Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with - which is of Page 35, line 19, replace "is then complete at 340." with then comp A <sup>3</sup> described above. Page 35, line 25, after "steps" insert 337, In the Claims: All pending claims are presented below for the convenience of the E		
Page 34, line 12, after "player" insert , and the process is then comp Page 35, line 17, replace "as described above" with - which is a reference to step 337, Page 35, line 19, replace "is then complete at 340." with then comp described above. Page 35, line 25, after "steps" insert 337, Page 35, line 25, after "steps" insert 337,		
Page 35, line 17, replace "as described above" with - which is a reference to step 337. Page 35, line 19, replace "is then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then c		Page 34, line 12, after "player" insert , and the process is then complete at 342
Page 35, line 19, replace "is then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with then complete at 340." with then complete at 340. "with t		Page 35, line 17, replace "as described above" with - which is described above with
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Page 35, line 25, after "steps" insert 337, In the Claims: All pending claims are presented below for the convenience of the E		Page 35, line 19, replace "is then complete at 340." with then continues to step 328 as
Page 35, line 25, after "steps"/nsert 337, In the Claims: All pending claims are presented below for the convenience of the E	13	described above.
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have been changed by this amendment are marked as "amended.		그는 것 같은 것 같
		have been changed by this amendment are marked as "amended.
Please cancel claims 1-41 without prejudice.		Please cancel claims 1-41 without prejudice.
P. J.	: =	
	prize redemption system b	method for providing a prize redemption system for a game apparatus, said being customizable by an operator, said method comprising:
	4	prizes available to be won by playing said game apparatus, wherein said game apparatus receives
receiving a prize list on a game apparatus, said prize list including [	YT	prizes available to be won by playing said game apparatus, wherein said game apparatus receives

monetary income from players in exchange for use of said game apparatus, and wherein said players may win prize credits by playing said game apparatus;

receiving a cost of each of said prizes on said game apparatus; and

determining on said game apparatus a prize cost to be associated with each of said plurality of prizes, said prize cost being in terms of prize credits and determined in view of a desired profitability of said game apparatus, and wherein a player of said game apparatus may select one of said prizes by exchanging a number of prize credits equal to said prize cost of said selected prize.

43. A method as recited in claim 42 further comprising receiving a global payout percentage on said game apparatus, said global payout percentage indicating a percentage of said monetary income earned by said game apparatus that is to be used in providing said prizes to said players, and wherein said prize cost is determined such that said payout percentage may be approximately achieved.

44. A method as recited in claim 43 wherein said prize cost is determined using an average number of prize credits awarded per game played on said game apparatus, wherein said average number of prize credits awarded per game is determined by recording and averaging prize credits won by players over multiple games played on said game apparatus.

45. A method as recited in claim 43 wherein said game apparatus offers specific prizes to players when a specific prize goal is met, and further comprising receiving a global specific prize win percentage on said game apparatus, said global win percentage indicating a percentage of said monetary income earned by said game apparatus that is to be used in providing said specific prizes to said players.

46. A method as recited in claim 45 further comprising determining on said game apparatus a specific prize individual ratio associated with each of said prizes, said individual ratio how frequently said associated prize is to be awarded as a specific prize when said specific prize goal is met.

47. A method as recited in claim 46 wherein more valuable prizes in said prize table are first checked when awarding said specific prize.

48. (amended) A method as recited in claim 46 wherein said specific prize individual [ration] ratio is modified by a normalization factor based on a frequency of players achieving said specific prize goal.

49. A method as recited in claim 48 wherein said specific prize individual ratio is determined using a hit ratio describing how many times, on average, a specific prize is won on said game apparatus, wherein said hit ratio is determined by recording and averaging occurrences of players winning specific prizes over multiple games on said game apparatus.

50. A method as recited in claim 45 wherein said prize list, said cost of each of said prizes, said payout percentage, said win percentage, said prize cost, and said specific prize individual ratios are displayed on a display screen of said game apparatus.

51. (amended) A method as recited in 44 wherein said prize [cost] <u>costs</u> may be manually adjusted by said operator, such that said global payout percentage is adjusted by said redemption system based on said manual adjustments.

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52. A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, the method comprising:

displaying a prize table on a display of said game apparatus;

receiving prize input from said operator which is stored on a storage medium of said game apparatus and displayed in said prize table, said prize input describing a plurality of prizes that are to be available in said redemption system to players of said game apparatus, wherein said game apparatus receives monetary income from players in exchange for use of said game apparatus;

receiving payout input from said operator which is stored on said storage medium, said payout input indicating a desired amount of payout that said operator wishes to provide back to players of said game apparatus in terms of a monetary value of said plurality of prizes;

determining a prize cost for each of said plurality of prizes in terms of said prize credits winnable by playing a game on said game apparatus, wherein said prize cost is determined in accordance with said desired amount of payout and is stored in said storage medium;

receiving monetary input from a player on said game apparatus;

implementing a game process and receiving input from said player during said game process, wherein said player is provided with a game score based on an outcome of said game process, wherein said player is provided with a number of prize credits based on said game score;

displaying a prize selection screen on said display, said prize selection screen portraying a plurality of prizes and a prize cost for each of said prizes;

receiving a selection from said player selecting at least one of said prizes, wherein said selected prize has a prize cost less than or equal to said pumber of prize credits provided to said player; and

dispensing a physical indication of said selected prize to said player, wherein said player is able to redeem at least one of said prizes with said/dispensed indication.

53. A method as recited in claim  $\beta 2$  wherein said prize table is downloaded from a remote server coupled to said game apparatus.

54. A method as recited in claim 53 wherein said remote server is coupled to said game apparatus using a local area network or a wide area network.

55. A method as recited in claim 52 further comprising a step of displaying advertising information on said game apparatus, said advertising information portraying a brand or a product having said brand, wherein a prize having said brand is displayed on said prize selection screen and may be selected as a prize by said player.

56. A method as recited in claim 55 wherein said prize having said brand is a discount on a price of said advertised product when purchasing said advertised product, wherein said dispensed physical indication is a coupon indicating said price discount.

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57. A method as recited in claim 52 wherein said selected prize includes an exchange of said prize credits for game credits so that said player may play additional games on said game apparatus.

58. A game apparatus providing a prize redemption system, the game apparatus comprising:

a game processor for controlling a game on said game apparatus, said game providing a number of prize credits to a player in connection with said player playing said game;

receiving means for receiving monetary input from said player, said receiving means being coupled to said game processor;

an input device coupled to said game processor and providing commands to said game from said player;

an output display device coupled to said game processor for providing visual feedback for said game;

means for providing a prize selection menu on said display device, said prize selection menu presenting a plurality of prizes, each of said prizes having a prize credit cost which has been determined in accordance with a desired payout value of an operator of said game apparatus, wherein said player selects one of said prizes using said input device, said selected prize having a prize credit cost less than or equal to said prize credits awarded to said player; and

a prize output device coupled to/said game processor for outputting an indication of said selected prize to said player such that said player may use said indication to redeem said selected prize.

59. A game apparatus as recited in claim 58 wherein said game is a game of skill.

60. A game apparatus as recited in claim 58 wherein said desired payout value of said operator is a percentage of all monetary input received by said game apparatus that said operator desires to give back to said players in terms of prizes.

61. A game apparatus as recited in claim 60 wherein said prize credits are determined based on a game score resulting from said game.

62. A game apparatus as recited in claim 60 further comprising means for selecting a prize credit game for receiving said prize credits based on said game score, and means for selecting a tournament game for competing in a tournament with other players of said game apparatus for a tournament prize.

63. A game apparatus as recited in claim 60 wherein said prize output device is a dispenser capable of dispensing a specific prize ticket portraying said prize selected by said player.

64. A game apparatus as recited in claim 60/wherein said prize output device writes electronic data on a storage medium that said player may remove from said game apparatus, said electronic data indicating said selected prize.

65. A game apparatus as recited in claim 60 further comprising a universal ticket dispenser for dispensing a plurality of universal tickets equal to said number of prize credits.

66. A game apparatus as recited in claim 58 wherein said game apparatus is provided in a bar or a restaurant gaming environment.

67. A game apparatus as recited in claim \$8 wherein said receiving means includes a coin slot.

68. A game apparatus as recited in claim 58 wherein said game apparatus is included in a networked game system having a plurality of said game apparatuses and a server, and wherein said game apparatuses and server are linked using a local area network or a wide area network.

369. (amended) A method for providing a tournament game on a game apparatus, the method comprising:

(a) providing a tournament game for a player on said game apparatus;

(b) receiving monetary input from a player to allow said player to participate in said tournament by playing said tournament game;

(c) contributing at least a portion of said monetary input towards a tournament prize;

(d) implementing said tournament game, including receiving input from said player during said tournament game, and providing a game score based on an outcome of said tournament game;

(e) repeating steps (a) through (d) until said tournament is determined to have concluded; and

(f) providing said tournament prize to one or more winning players selected from [said] participants of said tournament.

70. A method as recited in claim 69 wherein said providing a tournament game includes offering a player a choice to participate in said tournament or to play a game on said game apparatus and not participate in said tournament.

71. A method as recited in claim 69 wherein said player is allowed to participate in said tournament only after playing a predetermined number of non-tournament games on said game apparatus.

72. A method as recited in claim 69 wherein said tournament prize is in a form of prize credits awarded to said winning players, wherein a prize can be selected by a winning player using said prize credits.

73. A method as recited in claim 69 wherein said prize is selected by said winning player using a menu presented on said game apparatus.

74. A method as recited in claim 69 wherein said tournament prize is cash, and wherein said at least a portion of said monetary input is directly added to said tournament prize.

75. A method as recited in claim 74 wherein said tournament prize includes a seed monetary value to which said contributed portions of monetary input are added.

76. A method as recited in claim 74 wherein said tournament is determined to have concluded after a predetermined time period has elapsed.

77. A method as recited in claim 74 wherein said winning players are selected as a predetermined number of participants in said tournament who have achieved the highest game scores in said tournament.

78. A method as recited in claim 69 wherein a plurality of tournament games are provided on said game apparatus, and wherein said player can select a particular tournament game in which to participate.

79. A method as recited in claim 69 further comprising a plurality of said game apparatuses linked together such that players of any of said linked game apparatuses may participate in said tournament by playing a tournament game on any of said linked game apparatuses.

Please add the following claims:

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<sup>1</sup>80. (new) A method as recited in claim 43 wherein said prize costs may be manually adjusted by said operator, such that said global payout percentage is adjusted by said redemption system based on said manual adjustments, and wherein said global payout percentage is adjusted by determining an individual payout percentage for each of said prizes and averaging said individual payout percentages to determine said adjusted global payout percentage.

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St. (new) A method as recited in claim 42 further comprising displaying advertising information on said game apparatus, said advertising information portraying a brand or a product having said brand, wherein a prize having said brand is displayed on a prize selection screen displayed by said game apparatus and may be selected as a prize by said player when said player exchanges a number of prize credits equal to a prize cost of said prize having said brand.

13 82. (new) A method as recited in claim &1 wherein said prize having said brand is a discount on a price of said advertised product when purchasing said advertised product, wherein said prize is provided to said player as a coupon indicating said price discount.

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14,83. (new) A method as recited in claim 42 wherein said game apparatus is a bar top game provided at a bar, tavern, or restaurant environmentan electromechanical game provided at an arcade environment, or a computer device provided at a home of a player.

33 21 84. (new) A game apparatus as recited in claim 58 wherein said game apparatus is included in a networked game system including a plurality of said game apparatuses and a server, and wherein said game apparatuses and server are linked using a network, wherein said prize credit costs of said selectable prizes are stored on said server and are provided to said game apparatuses over said network.

 $\frac{2}{85}$  (new) A game apparatus as recited in claim 59 further comprising means for providing a specific prize goal during said game of skill played on said game apparatus, wherein at least one of said plurality of prizes is automatically won as a specific prize by said player when said specific prize goal is achieved by said player using skill. 45

34 86. (new) A method as recited in claim 69 wherein said prize is selected by said winning player using a prize selection menu presented on said game apparatus displaying a plurality of available prizes, wherein said tournament prize includes a plurality of prize credits usable to redeem at least one of said prizes in said prize selection menu.

1.87. (new) A method as recited in claim 86 wherein said at least a portion of said monetary input contributed toward said tournament prize has a value in prize credits that is added to said tournament prize, and wherein a specific prize ticket is dispensed from said game apparatus, said specific prize ticket being redeemable for said prize selected by said winning player from said prize selection menu.

88. (new) A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, said method comprising:

displaying a prize table on a display;

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receiving prize input which is stored on a storage medium and displayed in said prize table, said prize input characterizing a plurality of prizes that are to be available in said redemption system to players of said game apparatus, wherein said prize input includes monetary costs of said prizes, and wherein said game apparatus receives monetary income from players in exchange for allowing use of said game apparatus;

receiving payout input from said operator which is stored on said storage medium, said payout input indicating a desired amount of payout that said operator wishes to provide back to said players of

said game apparatus in terms of a monetary value of said plurality of prizes, wherein said payout input includes a global payout percentage value indicating a desired percentage of said monetary income earned by said game apparatus that said operator wishes to provide back to players in the form of said prizes; and

automatically determining prize information for each of said plurality of prizes, said prize information determining how frequently said prizes are to be won by players of said game apparatus, wherein said prize information is determined in accordance with said desired amount of payout and is stored on said storage medium, said prize information including a prize cost for each of said plurality of prizes in terms of prize credits winnable by players playing a game on said game apparatus, wherein said prize cost is determined in accordance with said desired amount of payout and is stored on said storage medium, said prize costs being determined using an average number of prize credits awarded per game played on said game apparatus, wherein said average number of prize credits awarded per game is determined by recording and averaging prize credits won by players over multiple games played on said game apparatus.

48 89. (new) A method as recited in claim 88 wherein said prize information is displayed in said prize table.

4990. (new) A method as recited in claim 88 wherein said prize input is received manually from said operator.

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-91. (new) A method as recited in claim 88 wherein said prize table is displayed by a computer apparatus which includes said storage medium, and wherein said prize input is received from a remote apparatus linked to said computer apparatus.

92. (new) A method as recited in claim & wherein said display is included in said game apparatus such that said prize table is displayed on said game apparatus, and wherein said storage medium is included as a storage device in said game apparatus.

52 93. (new) A method as recited in claim & wherein said prize input includes text or pictorial information describing said prizes.

5-3 94. (new) A method as recited in claim 88 wherein said operator may manually adjust said prize information to provide a desired amount of said payout.

47 59. (new) A method as recited in claim 88 wherein said plurality of prizes from said prize table are provided to said game apparatus to be displayed to said players as a menu by said game apparatus, said menu allowing said players to select a prize from said menu after winning at least one prize credit by playing a game on said game apparatus.

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96. (new) A method as recited in claim 95 wherein said selected prize is provided to said player by dispensing a specific prize ticket describing said selected prize and which is redeemable for said prize.

97. (new) A method as recited in claim & wherein said game apparatus provides a specific prize goal during said game that may be achieved by skill of said player, and wherein if said specific prize goal is achieved, said player receives a specific prize.

54 58. (new) A method as recited in claim 95 wherein said game apparatus is included in a system comprising a plurality of game apparatuses coupled together such that players of said plurality of game apparatuses may all choose prizes from a prize database communicated to said plurality of game apparatuses.

47 99. (new) A method as recited in claim & wherein said game apparatus is a bar top game provided at a bar, tavern, or restaurant environment, an electromechanical game provided at an arcade environment, or a computer device provided at a home of a player.

100. (new) A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, said method comprising:

displaying a prize table on a display;

receiving prize input which is stored on a storage medium and displayed in said prize table, said prize input characterizing a plurality of prizes that are to be available in said redemption system to players of said game apparatus, wherein said prize input includes monetary costs of said prizes, and wherein said game apparatus receives monetary income from players in exchange for allowing use of said game apparatus;

receiving payout input from said operator which is stored on said storage medium, said payout input indicating a desired amount of payout that said operator wishes to provide back to said players of said game apparatus in terms of a monetary value of said plurality of prizes; and

automatically determining prize information for each of said plurality of prizes, said prize information determining how frequently said prizes are to be won by players of said game apparatus, wherein said prize information is determined in accordance with said desired amount of payout and is stored on said storage medium, and wherein each of said prizes can be won as a specific prize on said game apparatus, said prize information including a win ratio for each of said plurality of prizes in terms of how many times said particular prize is won as a specific prize on said game apparatus, wherein said win ratio is determined in accordance with said desired amount of payout and is stored on said storage medium. 101. (new) A method as recited in claim 100 wherein a prize is won as a specific prize when a player achieves a specific prize goal on said game apparatus, said specific prize goal being achieved by skill of said player.

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102. (new) A method as recited in claim 100 wherein a prize is won as a specific prize when a specific prize goal is achieved on said game apparatus, said specific prize goal being achieved by random chance.

62 403. (new) A method as recited in claim 100 wherein said payout input includes a global win percentage value indicating a desired percentage of said monetary income earned by said game apparatus that said operator wishes to provide back to players in the form of said specific prizes.

(63-104. (new) A method as recited in claim 100-wherein a specific prize is randomly selected from a plurality of available specific prizes when said specific prize goal is achieved by said player.

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105. (new) A method as recited in claim 104 wherein said random selection of said specific prize is modified according to statistical information such that said win ratios of awarding said specific prizes are approximately fulfilled.

106. (new) A method as recited in claim 100 wherein said plurality of prizes from said prize table are provided to said game apparatus to be displayed to said players as a menu by said game apparatus, said menu allowing said players to select a prize from said menu after winning at least one prize credit by playing a game on said game apparatus.

107. (new) A method as recited in claim 106 wherein said prize information includes a prize cost for each of said plurality of prizes in terms of prize credits winnable by players playing a game on said game apparatus, wherein said prize cost is determined in accordance with a desired amount of global prize payout and is stored on said storage medium.

108. (new) A method as recited in claim 106 wherein said payout input includes a global payout percentage value indicating a desired percentage of said monetary income earned by said game apparatus that said operator wishes to provide back to players in the form of said selectable prizes.

109. (new) A method as recited in claim 106 wherein said prize costs are determined using an average number of prize credits awarded per game played on said game apparatus, wherein said average number of prize credits awarded per game is determined by recording and averaging prize credits won by players over multiple games played on said game apparatus.

67. HO. (new) A method as recited in claim 407 wherein said player may achieve a progressive goal using skill in said game, such that if said progressive goal is achieved, progressive bonus prize

credits are awarded to said player, said progressive bonus credits being contributed to by multiple players of said game apparatus.

59HT. (new) A method as recited in claim 100 wherein said game apparatus is included in a system comprising a plurality of game apparatuses coupled together such that players of said plurality of game apparatuses may all choose prizes from a prize database communicated to said plurality of game apparatuses.

142. (new) A method as recited in claim 106 wherein said selected prize is provided to said player by dispensing a specific prize ticket describing said selected prize and which is redeemable for said prize.

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H3. (new) A method as recited in claim 100 wherein said game apparatus is a bar top game provided at a bar, tavern, or restaurant environment, an electromechanical game provided at an arcade environment, or a computer device provided at a home of a player.

14 (new) A game apparatus providing a prize redemption system, the game apparatus comprising:

a game processor for controlling a game on said game apparatus, said game providing a number of prize credits to a player in connection with said player playing said game, said game processor also providing a prize selection menu, said prize selection menu presenting a plurality of prizes, each of said prizes having a prize credit cost which has been determined in accordance with a desired payout value of an operator of said game apparatus, wherein said player selects one of said prizes using said input device, said selected prize having a prize credit cost less than or equal to said prize credits awarded to said player;

a monetary input device that receives monetary input from said player, said monetary input device being coupled to said game processor;

an input device coupled to said game processor and providing commands to said game from said player;

an output display device coupled to said game processor and displaying said prize selection menu and providing visual feedback for said game; and

a prize output device coupled to said game processor that outputs an indication of said selected prize to said player such that said player may use said indication to redeem said selected prize.

74 73 A game apparatus as recited in claim H4 wherein said game is a game of skill.

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(new) A game apparatus as recited in claim 114 wherein said desired payout value of said operator is a percentage of all monetary input received by said game apparatus that said operator desires to give back to said players in terms of said prizes.

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HT. (new) A game apparatus as recited in claim H6 wherein said prize output device is a dispenser capable of dispensing a specific prize ticket portraying said prize selected by said player.

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77 18. (new) A game apparatus as recited in claim 144 wherein said game apparatus is included in a networked game system having a plurality of said game apparatuses and a server, and wherein said game apparatuses and server are linked using a local area network or a wide area network.

# REMARKS

Claims 42-118 are pending in this application. Claims 42, 48, 51, and 69 have been changed. Claims 1-41 have been cancelled, and claims 80-118 have been added by this amendment. Applicant reserves the right to introduce claims of comparable scope to the original claims in a continuation or other related application.

Applicant has amended the pending claims, specification and drawings to make minor corrections. The specification and drawings have been amended to correct reference numbers in Fig. 6a that conflict with reference numbers in Fig. 6b, and to correct inconsistencies in Fig. 6. In addition, Fig. 3 has been amended to include reference number 110 disclosed in the specification on page 21, line 23, and Fig. 5 has been amended to add an exit line at the "no" branch of step 254 as supported in the specification on page 27, lines 9-10. The claims have been amended to correct minor grammatical and clarification errors.

The Examiner provisionally rejected claims 1-30, 32, 37, 39, and 40 under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-59 of copending application serial no. 08/628,490. Applicant has cancelled claims 1-30, 32, 37, 39, and 40 to expedite prosecution of the remaining pending claims and will pursue the rejected claims in a continuation or other related application. These cancellations are not to be construed in any way as an admission that the cancelled claims are unpatentable.

The Examiner provisionally rejected claims 1-30, 32, 37, 39 and 40 under 35 U.S.C. \$103(a)/102(e) as being unpatentable over application serial no. 08/628,490 should the prior application issue as a patent. Applicant has cancelled claims 1-30, 32, 37, 39, and 40 to expedite prosecution of the remaining pending claims and will pursue the rejected claims in a continuation or other related application. These cancellations are not to be construed in any way as an admission that the cancelled claims are unpatentable.



The Examiner rejected claims 27-41 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention, since claim 27 lacks a period. Applicant has cancelled claim 27 as explained above.

The Examiner provisionally rejected claims 1-30, 32, 37, 39, and 40 under 35 U.S.C. §102(b) as being anticipated by Koza et al. Applicant believes claims 1-30, 32, 37, 39, and 40 are patentable over Koza et al. but has cancelled these claims to expedite prosecution of the remaining pending claims. These cancellations are not to be construed in any way as an admission that the cancelled claims are unpatentable, and Applicant will pursue the cancelled claims in a continuation or other related application.

The Examiner rejected claims 38 and 41 under 35 U.S.C. §103 as being unpatentable over Koza et al. Applicant believes claims 38 and 41 are patentable over Koza et al. but has cancelled these claims to expedite prosecution of the remaining pending claims. Applicant will pursue the rejected claims in a continuation or other related application. These cancellations are not to be construed in any way as an admission that the cancelled claims are unpatentable.

In view of the foregoing, Applicant respectfully requests that the rejections under §102 and §103 be withdrawn.

The Examiner is thanked for the indication that claims 42-79 are allowed. Applicant has added new claims 80-83 which are dependent from claim 42, new claims 84-85 which are dependent from claim 58, and new claims 86-87 which are dependent from claim 69. Therefore \* these added dependent claims are patentable over the cited art for at least the same reasons as their respective parent claims. Examples of support in the specification for new claims include: claim 80 at page 52, lines 8-35; claims 81-82 are similar to claims 55-56; claim 83 is similar to cancelled claims 21-23; claim 84 at page 24, lines 9-14; claim 85 at page 35, lines 1-20; claim 86 at page 42, lines 1-4; claim 87 at page 39, lines 11-14 and page 42, lines 4-9.

The Examiner objected to claims 31 and 33-36 as being dependent upon a rejected base claim, and indicated these claims would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Accordingly, Applicant has added new claim 88, which recites subject matter of claims 31 and all the limitations of the base claim (30) and all the intervening claims. Applicant therefore believes claim 88 is patentable. Claims 89-99 are dependent from claim 88 and are believed patentable for at least the same reasons as claim 88. Claims 90, 91, 92, 93, 94, 95, 96, 97, and 98 recite similar subject matter to cancelled claims 37, 38, 39, 40, 41, 32, 16, 34, and 13, respectively. Claim 89 recites that prize information is displayed in the prize table as disclosed, for example, in Fig. 9a of the specification.

Applicant has also added claim 100, which recites the subject matter of claim 33 and all the limitations of the base claim (30) and all the intervening claims. Applicant therefore believes that

claim 100 is patentable over the cited art as indicated by the Examiner. Claims 101-114 are dependent from claim 100 and are believed patentable for at least the same reasons as claim 100. Claims 101-104 recite similar subject matter to cancelled claims 34-36. Claims 104 and 105 are supported in the specification at page 45, lines 19-38; claim 106 at page 43, lines 13-16 and page 54, lines 29-34; claims 107-109 are similar to claims 42-44; claims 110-112 are similar to cancelled claims 15 and 13 and 16; and claim 113 is similar to cancelled claims 21-23.

Applicant has also added new claims 114-118. Claim 114 recites subject matter similar to original claim 58, and claims 115-118 are dependent from claim 114 and recite similar subject matter to original claims 59, 60, 63, and 68 and are believed patentable for reasons similar to the reasons that claims 58-60, 63 and 68 are patentable.

In view of the foregoing, Applicant believes that all pending claims are allowable and respectfully requests a Notice of Allowance from the Examiner. Should the Examiner have any questions concerning this matter, he is respectfully requested to call the undersigned at the number set out below.

Respectfully submitted, James R. Riegel

Reg. 36,651

Palo Alto, California 415-493-6400

ransmittal L		TPE	Patent Docket No.: LAZ1P026
ereby certify that this trans ass Postage and addresse the of 07/11/97 sposit:	mittal of the below described docum d to the Commissioner of Patents as Name of Person Making the Deposit:	ient is being deposited with the Unite of Trademark 007 shington, D.C., 20 N. Lane Signature of the Per Making the Deposit:	rson VIIII
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### <u>BEFORE MAILING DATE OF EITHER A FINAL ACTION OR</u> NOTICE OF ALLOWANCE (37 CFR 1.97(c))

### Time of Transmittal of Accompanying Information Disclosure Statement

1. The information disclosure statement transmitted herewith is being filed after three months of the filing date of this national application or the date of entry of the national stage as set forth in §1.491 in an international application or after the mailing date of the first Office Action on the merits, whichever event occurred last but before the mailing date of either:

(1) a final action under §1.113 or

(2) a notice of allowance under §1.311, whichever occurs first

### Certification or Fee

- 2. Accompanying this transmittal is:
  - (a) \_\_\_\_\_ a certification as specified in 37 CFR 1.97(e)
  - (b) X the fee set forth in 37 CFR 1.17(p) for submission of an information disclosure statement under §1.97(c). (\$230.00).

James R. Riegel Name:/ Reg,/No. 36,651

Date: July 11, 1997 Hickman Beyer & Weaver P.O. Box 61059 Palo Alto, California 94306 Tel. (415) 493-6400

(tranlet v.3.0 06/94)

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

MATTHEW F. KELLY et al.

Serial No.: 08/746,755

Filed: November 14, 1996

For: PRIZE REDEMPTION SYSTEMS FOR GAMES

6	JUL	14	1997
TO	p Ar	t Un	it: 330

Attny Docket No.: LAZ1P026

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231 on July 11, 1997.

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56 AND §1.97

Signed:

Commissioner of Patents and Trademarks Washington, DC 20231

Dear Sir:

The references listed in the attached PTO Form 1449 may be material to examination of the above-identified patent application. Applicants submit the list of these references in compliance with their duty of disclosure pursuant to 37 CFR §§1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.

The above-identified application is a Continuation-In-Part of prior application Serial No. 08/628,490. These prior application is being relied upon for an earlier filing date under 35 U.S.C. §120. Because the listed references were either cited by the PTO or submitted to the PTO in the prior parent application, under 37 C.F.R. §1.98(d) Applicants submit that copies need not be provided.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

Respectfully submitted,

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Atty Docket No. LAZ1P026

## PATENT SPECIFICATION



Int. CL:-A 63 1 9/88.

Index at Acceptance:-A6 H4B1.

DRAWINGS ATTACHED

### 1.087.361

Dute of filing Complete Specification: July 21, 1966. Application Date: August 2, 1965. Complete Specification Published: October 15. 1967. SCIENTIFIC LIBRARY C Crown Copyright 1967.

No. 32941165

### DEC 1 2 1967

#### COMILETE SPECIFICATION U. S. PATENT OFFICE

### Automatic Coin-operated Amusement Machine

We. NORAH SOPHIA CROMPTON, a British subject. of 2 Hill Crest Gardens, Ramsgate, Kent, and JAMES ERIC CROMPTON, a British subject. of The Beezbes, Lanthorne Road, 5 Broadstairs, Kent, legal representatives of ALFRED JAMES LITULFF CROMPTON (deceased). a British subjest, late of 1 Viking Court, Cliftonville Avenue, Cliftonville,

Margate. Kent. do hereby declare the in-10 vention, for which we pray that a patent may be granted to us, and the method by which is to be performed, to be particularly described in and by the following state-

ment:-This invention relates to amusement machines of the kind which may be found 15 in fun fairs, amusement arcades or clubs, and the object of the invention is to provide a machine which is completely automatic

- 20 in operation, simple in conception and construction, and in which the user may see precisely what happens to the coins which have been inserted in the machine.
- The invention consists of an automatic 25 coin operated amusement machine comprising a substantially vertical panel having a number of coin slots and a number of springy pins projecting from the panel to cause coins falling down the surface of the
- 36 panel to be deflected, a plurality of openings in the panel through which comes may pass, a switch associated with each opening which is actuated by the passage of a coin, one or more sloping coin receiver chutes at the 35 iower end of the panel down which coins
- failing to enter one of the openings may slide, a plurality of coin receivers opening from the or each chute into which coins sliding down the chute may fall the coin 40 receivers being arranged to hold differing numbers of coins, a coin trav to receive coins sliding down the chute or chutes and failing to enter one of the coin receivers, the coin

[Price 4s. 6d.]

tray being accessible to the user of the machines to enable him to recover coins 45 theretrum, and an electromagnetic actuator for each of the coin receivers which, when energized, opens the receiver to allow the coins to fall into the coin tray, each actuator being in an energizing circuit with one 50 switch, whereby a coin passing through an opening causes the assauciated actualor to discharge the contents of the respective coin receiver into the coin tray.

To promote a ready understanding of the 55 invention, one embodiment of the amuse ment machine will now be described with reference to the single Figure of the accompanying drawing. This drawing is diagram-matic and only those parts necessary to an 60 understanding of the invention are shown.

In this particular embodiment a substan-tially vertical panel 11 is provided and this is conveniently about 20 inches wide by about 2 feet in height. Four coin slots (not 65 shown) are arranged at selected points along the top of the panel so that coins inserted in the slots are allowed to fall vertically down the surface of the panel 11. At various points over the area of the panel spring pins 70 (not shown) project from this surface. These pins are conveniently made of stainless steel or spring steel rod and each passes through a clearance hole in the panel, each pin being attached to a block fixed to the rear surface 75 of the panel so that whenever a falling coin strikes a pin the springiness of the pin causes the coin to bounce and to be deflected in a direction which depends upon the position in which the coin strikes the pin.

The panel contains eight openings, respectively 12 to 19, which may conveniently be about one and one-half inches square, and each of the openings is obscured by a metal plate 20 4only one of which is shown) cut 85 to the silhouette of a cup of the kind used

### parallel to and spaced from the surface of the panel, the arrangement being such that a coin which appears to fall into the cup 5 will also fall through the hidden opening and pass down a steeply sloping chute (not shown) behind the panel. Two of the open-ings, respectively 12 and 13, are near the top of the panel and are conveniently spaced 16 about four and one-half inches from the top of the panel and six inches on either side of the vertical centre line 21 thereof. Two further openings 14 and 15, covered by similar representations of cups, have their 15 centres spaced about eight inches from the top of the panel and about two and onehalf inches on either side of the centre line 21. Another two openings, respectively 16 and 17, have their centres placed respectively 20 below the first two openings and are spaced about eleven and one-half inches from the top of the panel, while the remaining two openings 18 and 19 are placed respectively below the second pair 14 and 15 and are 25 spaced about seven inces below the said second pair. Thus, the openings define four rows and four columns. The coin slots previously referred to are conveniently placed in vertical alignment with the columns.

as sports trophies, the metal plate being

Each of the metal representations of a cup has a circular piece, indicated as 22 in the cup 20, cut out of its centre and a transparent disc located in this hole bears a legend which is illuminated by a lamp placed 35 hehind the respective opening in the panel. The legend may be of any desired kind but in the example being described the upper two cups over the two openings 12 and 13 bear the legend "12 max." the next lower 40 two cups over the openings 14 and 15 bear the legend "4 max," the third lowest two cups over the openings 16 and 17 bear the legend "8 max" and the lowermost two cups over the openings 18 and 19 bear the legend "2 max." Below the lowermost cups two ramps, respectively 23 and 24, are placed so that they project outwardly from the panel surface, and they slope downwardly from the outer edges of the panel towards the centre. 50 at which there is a gap 25. This gap leads to a pair of coin receiver chutes, respectively 26 and 27, which extend from the central gap between the ramps downwardly and outwardly towards the sides of the panel, but 55 they are cut off short at points, respectively 8 and 29, some distance from the sides. Two deflector plates, respectively 30 and 31. placed below the ends of the chutes, lead inwardly from the sides of the panel for 60 some distance and terminate above a coin tray (not shown) which is surrounded by a metal bezel, indicated by dotted lines 32, through which the user of the machine may obtain access to the coin tray.

65 Spaced along each of the chutes 26 and

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27 are four tubular coin receivers, each having an internal diameter appropriate to accept the coins with which the machine is intended to function, for example, penny is intended to function, for example, penny pieces. The two coin receivers 33 and 34 70 nearest the junction of the two chutes at the centre of the panel are each of a depth sufficient to hold two coins, the next two coin receivers 35 and 36 are of a depth suf-ficient to receiver a stack of four coins, the 75 next two receivers 37 and 38 are of a depth sufficient to accommodate a stack of eight sufficient to accommodate a stack of eight coins and the remaining coin receivers 39 and 40 are each of a depth sufficient to accommodule a stack of twelve coins. Each coin SU receiver is fitted with a slide, indicated at 41 on the coin receiver 33, which, when withdrawn, allows the coins in the receiver to strike a curved wall 42 or 43 down which the coins may slide through an aperture 44 85 or 45 between the said wall and one or other of the deflector plates 30 and 31 and thence to fall into the coin tray.

A cover glass (not shown) is placed in front of the panel 11 to leave a space of about 90 three-sixteenths of an inch or a little less, so that coins, while sliding down the surface of the panel, are kept in a substantially vertical position. Coins failing to enter any of the cups and falling on to one or other 95 of the ramps 23 and 24 slide down these ramps to the gap 25 between the ramps and when they pass through this gap they fall on to two plates, respectively 46 and 47, so formed that the coins are turned and 100 slide down one of the two chutes 26 or 27 lying on one or other of their faces. The rear wall against which the coin receiver chutes 26 and 27 are mounted are set back with respect to the panel 11 to allow the 105 chutes 26 and 27 to be slightly wider than the diameter of the coins.

Inside a lower wall is a series of lamps arranged as part of a ring, each lamp being covered by a translucent disc, indicated by 110 references 48 to 55, bearing a legend corresponding to the legends in the cups, the legends in the present instance being numbers each corresponding to the number of coins which the adjacent coin receiver 115 will accommodate. Thus the two discs 48 and 55 nearest the two outermost coin receivers 39 and 40 are marked with the figure "12." the two discs 49 and 54, adjacent the coin receivers 37 and 38 holding eight coins, 120 are marked with the figure "8," the two discs 50 and 53, adjacent the coin receivers 35 and 36 holding four coins, are marked with the figure "4," and the two discs 51 and 52, adjacent the coin receivers 33 and 125 34 holding two coins, are marked with the figure "2.". Inside the part ring formed by the discs is the legend "Maximum pay-out." The last mentioned legend is omitted if the other legends do not refer to numbers of 130

#### 1.087,361

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coins. At its lower end each of the coin receivers is provided with a slide (such as slide 41) which may be opened as previously mentioned. Each slide is connected to an electromagnetic actuator (not shown) associated with a spring and so arranged that when the actuator is energized the slide is withdrawn to allow the coins to fall out of the receiver and eventually into the coin tray, and when the actuator is de-energized the spring returns the slide to close the coin receiver. The sceeply slop-ing vertical chute behind each opening is provided with a central slot and through 15 this slot projects a wire which forms a pivoted arm. The steeply sloping chutes are of substantial length, so that a coin passing down the chute deflects the arm and causes it to swing through a very large angle, which 20 takes an appreciable amount of time. Each arm is associated with a switch of suitable construction. for example a micro-switch, and is so arranged that as soon as an arm begins to move the switch is closed and it 25 is kept closed during the whole of the long downward swing of the arm and during the return swing of the arm (under the influence of a spring), after the arm has been released by the coin. This ensures that each switch 30 when actuated by the passage of a coin is kept closed for a comparatively long period of time. The comparatively long period of closure of the switches ensures that ample time is allowed for the electromagnetic 35 actuators to make their full stroke and open the coin receivers fully.

The cups over the two openings in the panel bearing the legend "12 max" have the associated switches connected with the 40 actuators associated with the coin receivers 34 and 40 on the respective sides of the panel. The switches associated with the openings 16 and 17, whose cups are marked with the legend "8 max." are in circuit with the 45 actuators of the coin receivers 37 and 38 on the respective sides of the panel. The cups associated with the openings 14 and 15 bear-ing the legend "4 max" have their switches in sircuit respectively with the actuators of 50 the coin receivers 35 and 36 and the cups covering the openings 18 and 19 which bear the logend "2 max" have their switches res-pectively in circuit with the actuators of the coin receivers 33 and 34 which are adapted 55 to contain up to two coins.

The lamps placed behind the openings 12 and 19 are of a type which operate at the mains supply voltage and may conveniently be of 15 watts rating. The lamps behind 60 the disc associated with the coin receivers also operate on the mains supply voltage and are conveniently of 25 watts rating but each are conveniently of 25 watts rating, but each lamp has a resistor connected in series with it so that it burns rather dully and will give 65 about the same light as the 15 wan lamps

normally give. Each of the resistors is con nected to a switch which is closed when the associated actuator makes its movement so that the lamp momentarily reaches full brilliance as the coin receiver is emptied. 70 A 24 volts full-wave rectified power supply is provided for the operation of the solenoids of the actuators, which are of the d.c. type. In operation the user of the machine

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inserts a coin in any one of the four slots 75 which he cares to choose. The coin, after falling through the slot, strikes a deflecting pin and is then bounced to and fro along the panel, striking different pins and gradually progressing down the surface of the 80 panel. If it fails to fall into one of the "cups" it eventually reaches one of the ramps 23 or 24 leading to the central gap 25 and then falls on to one or other of the two chutes 26 or 27. It then slides down that chute until 85 it reaches the first of the coin receivers (33 or 34) which is adapted to hold two coins and it falls into this coin receiver. If the receiver already contains two coins the uppermost of the coins is approximately level with the surface of the chute and the coin proceeds further along the chute and falls into one of the receivers 35 or 36. If these also are full the coin will enter the third of the receivers but if this is also full it will 95 fall into the last of the receivers 39 and 40 which can hold up to twelve coins. If all the coin receivers are full the chin slides off the end of the chute, strikes the deflecting plate and falls, into the coin tray, so that the turn user of the machine may recover it and use it again.

If the coin falls into one of the cups it actuates the associated switch which energizes the electromagnetic actuator of the 105 associated coin receiver and all the coinsm that receiver are allowed to fall into the coin tray, from which the user of the machine collects his winnings.

From the above description it will be 110 evident that all the coins inserted by users of the machine which do not fall into one of the cups are used to fill up the coin of the cups are used to hill up the com-receivers and when these are full the coms are returned to the users. Only those coins 115 which fall into the "cups" and produce wins for the users are allowed to fall into a coin box inside the machine casing, where they are retained. 120

WHAT I CLAIM IS :-

1. An automatic coin operated amuse ment machine comprising a substantially vertical panel having a number of coin slots and a number of springy pins projecting from the panel to cause coins falling down 125 the surface of the panel to be deflected, a plurality of openings in the panel through which coins may pass, a switch associated with each opening which is actuated by the passage of a coin, one or more sloping coin 130

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receiver chutes at the lower end of the panel down which coins failing to enter one of the openings may slide, a plurality of coin receivers opening from the or each chute into

which coins sliding down the chute may fall, the coin receivers being arranged to bold differing numbers of coins, a coin tray to receive coins sliding down the chute or chutes and failing to enter one of the coin

10 receivers, the coin tray being accessible to the user of the muchine to enable him to recover coins therefrom, and an electromagnetic actuator for each of the com receivers which when energized, opens the

- 15 receiver to allow the coins to fall into the coin tray, each actuator being in an energizing circuit with one switch, whereby a coin passing through an opening causes the associated actuator to discharge the contents 20
- of the respective coin receiver into the coin tray. A machine as claimed in claim 1 in

which the openings are arranged in horizontal rows.

25 3. A machine as claimed in claim 2 in which there are four rows of openings. A machine as claimed in claim 3 in 4

which there are two openings in each row. the openings in the first and third rows 30 being in vertical alignment to define columns

- equally spaced by a certain distance from the vetical centre line of the panel, and the openings in the second and fourth rows being also in vertical alignment to define further 35 columns equally spaced by a different dis-tance from the vertical centre line of the
- panel

A machine as claimed in claim 4 in which there are four coin slots, respectively 40 above the columns of openings

6. A machine as claimed in any preceding claim comprising a steeply sloping chute behind each opening, and a switch associated

with each chute having an operating arm 45 projecting through the chute so that the passage of a coin down the chute causes the switch to be actuated, the switch being in circuit with one of the actuators.

7. A machine as claimed in claim 50 comprising a long slot in each chute, the switch having its operating arm projecting through the slot, a spring to urge the arm to the upper part of the slot, the arm being arranged so that when a coin passes down

- 55 the chute the switch is closed as soon as the arm is moved and remains closed for the remainder of its downward movement under the influence of the coin and its return movement under the influence of the spring,
- whereby the switch remains closed for a sufficiently long period to ensure that the 61) associated electromagnetic actuator is fully operated.

8. A machine as claimed in any preced-

ing claim in which each opening is covered 6 by a device spaced from the panel by a distance sufficient to allow a coin to pass between it and the panel.

9. A machine as claimed in claim 8 in which the device is in the shape of a cup of ? the kind used as sports trophies.

10. A machine as claimed in claim 8 or 9 comprising a piece of translucent material in the device bearing a legend. 11. A machine as claimed in claim 10 73

in which the legend indicates the maximum number of coins which may be won when a coin passes through the associated open-

12. A machine as claimed in claim 10 or HI 11 comprising a lamp behind the opening to illuminate the legend.

13. A machine as claimed in any proceding claim comprising two ramps each slop-ing from one side of the panel downwardly #5 towards the centre, there being a gap between the inner ends of the ramps through which coins may fall on to the coin receiver chute or chutes.

14. A machine as claimed in claim 13 in 90 which there are two coin receiver chutes sloping downwardly from the centre of the machine below the gap, there being a plurality of coin receivers opening from each chute.

15. A machine as claimed in any pre-ceding claim comprising a number of indicating panels equal to the number of coin receivers, there being one panel adjacent each coin receiver. the panels each bearing 100 a legend.

16. A machine as claimed in claim 15 in which the legend is a number corresponding to the maximum number of coins which the adjacent coin receiver may contain. 1015

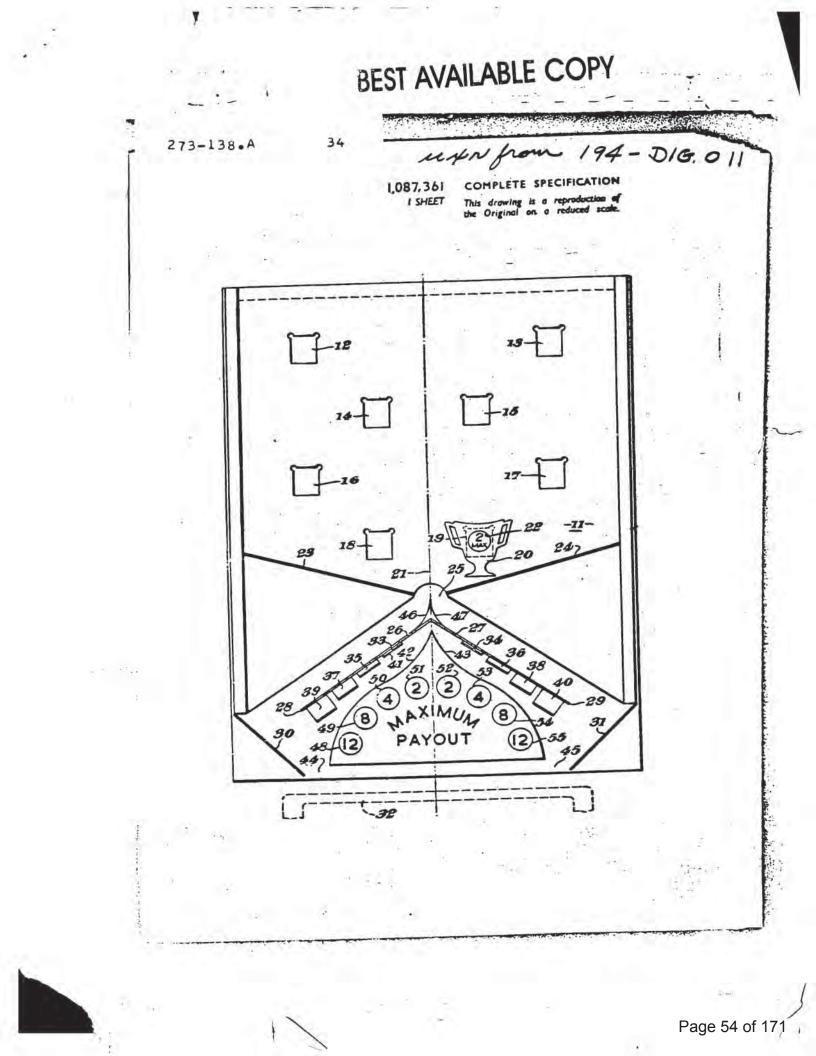
17. A machine as claimed in claim 15 or 16 in which the legend or number has a

lamp behind it to provide illumination. 18. A machine as claimed in claim 17 comprising a resistor in series with each 110 lamp so that the lamp normally burns at less than its full brilliance, a switch associated with each electromagnetic actuator adapted to be closed when the actuator is operated. the switch being connected across the resistor 115 in series with the associated lamp so that when the actuator is operated the associated lamp momentarily burns at full brilliance.

19 An automatic coin operated amusement machine arranged and adapted to 120 operate substantially as herein described. with reference to and as illustrated in the EDWIN C. AXE & CO.

27 Chancery Lane, London, W.C.2. Chartered Patent Agenta. Agents for the Applicants.

erwick-upon-Tweed: Printed for Her Mainstvis Stationery Office by The Tweeddale Press Ltd-ublished at the Paten: Office. 25 Southampton Buildings, London, W.C. from which content w obtained



\* Applicant/Patentee: Matthew F. Kelly et al.

Serial or Patent No. 08/746,755

Atty Docket #LAZ1P026

Filed or Issued: November 14, 1996

### VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS 37 CFR 1.9(f) and 1.27(c)--SMALL BUSINESS CONCERN

I hereby declare that I am

[ ] the owner of the small business concern identified below:

[X] an official empowered to act on behalf of the small business concern identified below:

### NAME OF CONCERN: RLT Acquisition, Inc.

ADDRESS: \_\_\_\_\_ 4430 Willow Road, Pleasanton, CA 94588

I hereby declare that the above identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under 41(a) and (b) of Title 35, U.S. Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention **PRIZE REDEMPTION SYSTEM FOR GAMES** by inventor(s) Matthew F. Kelly, Bryan M. Kelly, Norman B. Petermeier, John G. Kroeckel, and John E. Link, described in

] the specification filed herewith.

[X] application Serial No. <u>08/746,755</u> filed <u>November 14, 1996.</u> [] patent # \_\_\_\_\_\_issued

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed below\* and no rights to the invention are held by any person, other than the inventor, who could not qualify as a small business concern under 37 CFR 1.9(d) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e). \*Note: separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27) Name:

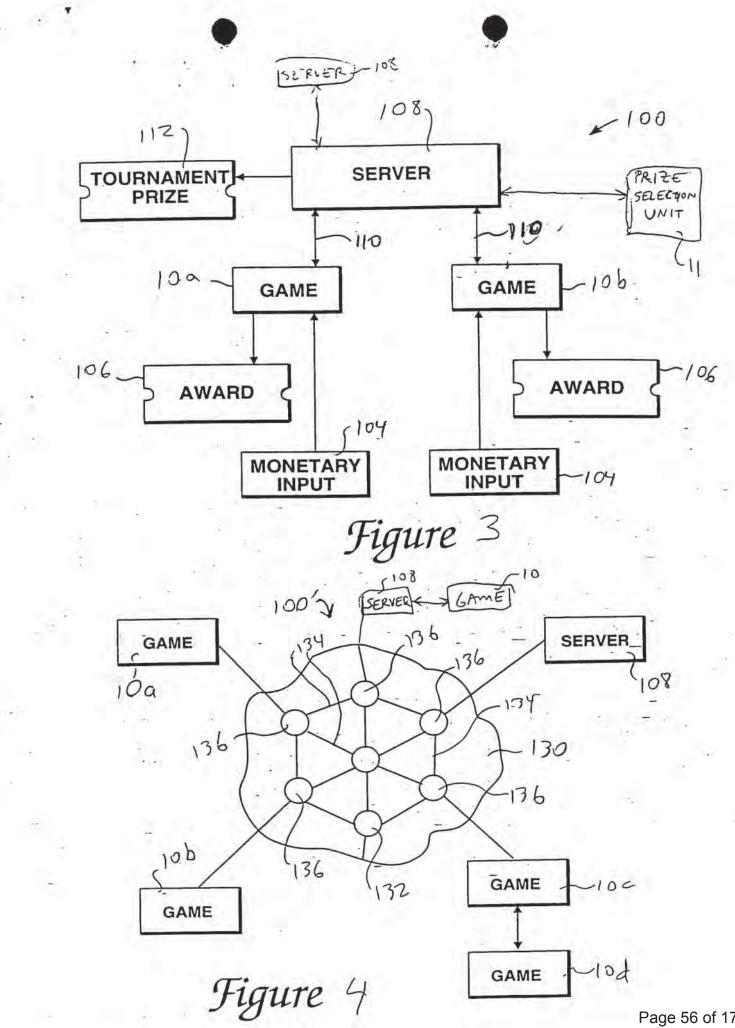
Address:

[] individual [] small business concern [] nonprofit organization

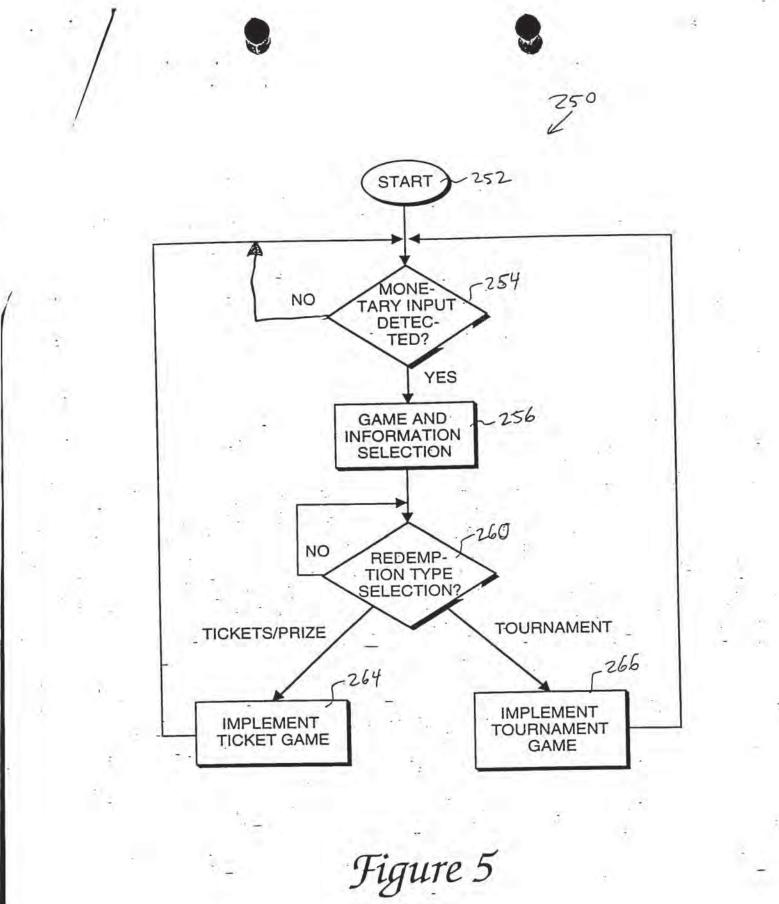
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b)).

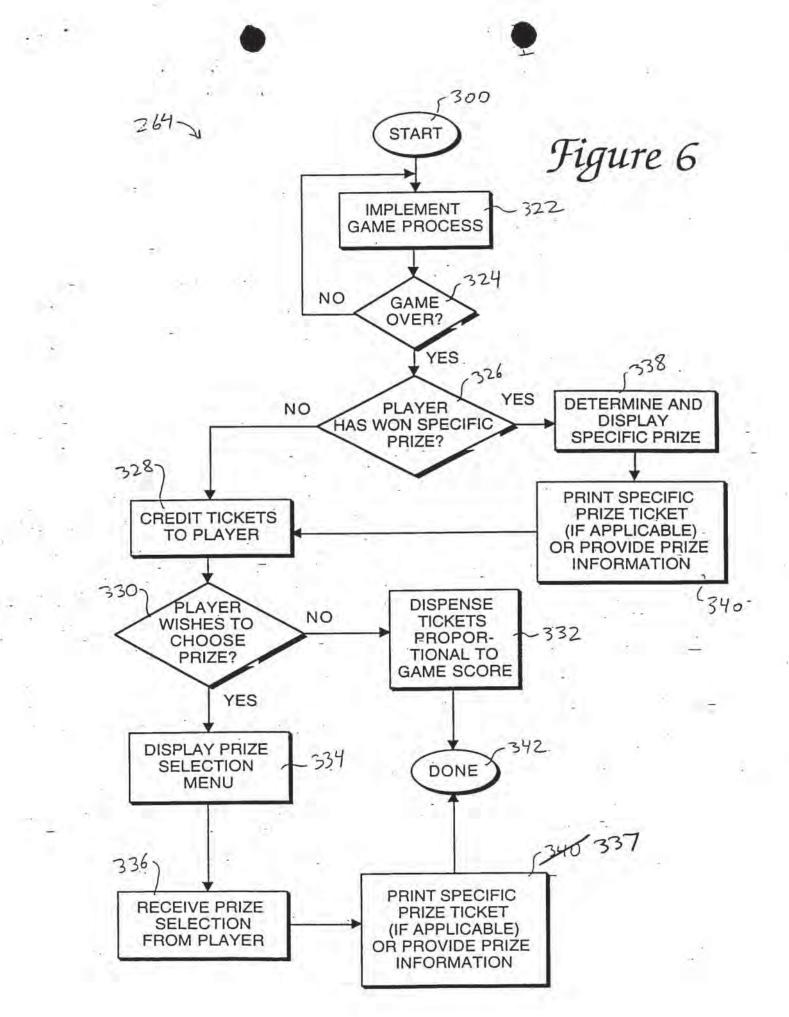
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 1001 of Title 18 of the U.S. Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Norman B. Petermeier	
TITLE IN ORGANIZATION: President	
ADDRESS OF PERSON SIGNING: 4430 Willow Road, Pleasanto	n, CA 94588
SIGNATURE & Norman B. Fettermeier	DATEX 7/7/97

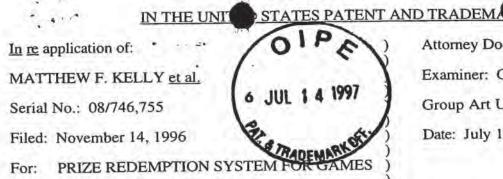


Page 56 of 171





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Attorney Docket Me

Examiner: G. Manuel

Group Art Unit: 3305

Date: July 11, 1997

### CERTIFICATE OF MAILING

OFFIC

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner of Patents and Trademarks, Washington, DC 20231 on July 11. 1997.

Insperil Signed: imberly'N 1 RECEIVED

AUG 1 2 1997

**GROUP 3300** 

Commissioner of Patents and Trademarks Washington, DC 20231

Sir:

Transmitted herewith is an amendment in the above-identified application.

The fee has been calculated as shown below.

	Claims			Ğ	<b>~</b>	
÷	Remaining After <u>Amendment</u>	Highest Previously <u>Paid For</u>	Present <u>Extra</u>	SMALL ENTITY	OR	LARGE ENTITY RATE FEE
TOTAL CLAIMS	_77		00	X11 = \$00	OR	X22 = \$
INDEP CLAIMS		06	_01	X40 = \$40	OR	X80 = \$
[] Multiple	Dependent Clain	n Present		\$130		\$260
and Fee N	lot Previously Pa	aid	TOTAL	\$ <u>40</u>		\$

Change in Entity Status with Verified Statement Claiming Small Entity Status. Transmittal of IDS Before Mailing Date of a Final Action or Notice of Allowance, Information Disclosure Statement, and Forms 1449 with (61) Cited References. Separate Letter to the Official Draftsman with (4) Sheets of Amended Drawings.

Enclosed is our Check No. 7466 in the amount of \$270.00 to cover the additional claim and IDS fees.

If the required fees are missing or any additional fees are required to facilitate filing the enclosed response, please charge such fees or credit any overpayment to Deposit Account No. 08-2120 (Order No. LAZ1P026). A copy of this sheet is enclosed.

Respectfully submitted, HICKMAN BEYER & WEAVER

James R. Riegel Reg. No. 36,651

P.O. Box 61059 Palo Alto, CA 94306 (415) 493-6400

X

(Revised 1/96) 08/1997 SCARNICH 00000068 08746 FC:126



PATENT

In the United States Pactornand Trademark Office

Applicant: Matthew F. Kelly et al. Applicant's Reference: LAZ1P026 Serial No: 08/746,755 Filed: November 14, 1996 Title: PRIZE REDEMTION SYSTEM FOR GAMES

Examiner: G. Manuel Group Art Unit: 3305

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner of Patents and Trademarks, Washington, DC 20231 on July 11, 1997.

Dimbru Signed: imberly N.

# Separate Letter to the Official Draftsman

Commissioner of Patents and Trademarks Washington, D.C. 20231

Dear Sir:

Please amend the drawing as indicated in red in the enclosed photocopy. If there are any questions concerning this matter, please call the undersigned at the telephone number below.

Respectfully submitted,

James R. Riegel Registration No. 36,651

Palo Alto, California 415-493-6400



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of

MATTHEW F. KELLY et al.

Serial No.: 08/746,755

Filed: November 14, 1996

For: PRIZE REDEMPTION SYSTEMS FOR GAMES Examiner: G. Manuel

PATENT

Art Unit: 3305

July 11, 1997

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### CHANGE IN ENTITY STATUS

Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Applicant hereby notifies the United States Patent and Trademark Office of a change Entity Status. This Application has been acquired by assignment by RLT Acquisition, Inc. which qualifies as a Small Entity. A new Small Entity status form is enclosed herewith.

If you have any questions concerning this matter, please contact the undersigned at the number set out below.

Respectfully submitted, HICKMAN BEYER & WEAVER

James R. Riegel Reg. No. 36,651

P.O. Box 61059 Palo Alto, CA 94306 (415) 493-6400

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	FIRST NAMED APPLICANT	ATTY, DOCKET NO.
APPLICATION NUMBER FILING DATE		M LAZ1P026
08/746,755 11/14/96	KELLY	EXAMINER
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FAUL L HICKMAN HICKMAN BEYER AND WEAVE	R	5
P 0 BOX 61059		3305
PALO ALTO CA 94306		DATE MAILED:
		06/19/97
This is a communication from the examiner in charge of COMMISSIONER OF PATENTS AND TRADEMARKS	your application.	
	FICE ACTION SUMMARY	
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Responsive to communication(s) filed on		
This action is FINAL.		tion on to the mosts is closed in
Since this application is in condition for allowance accordance with the practice under Ex parte Qua	except for formal matters, prosecute vie. 1935 D.C. 11; 453 O.G. 213.	
	3	month(s), or thirty days,
shortened statutory period for response to this activities to the statutory period for response to this communication of the statutory period for the statutory period for the statutory period for the statutory period for response to	on is set to expire	in the period for response will cause
hichever is longer, from the mailing date of this com e application to become abandoned. (35 U.S.C. § 1	133). Extensions of time may be obt	tained under the provisions of 37 CFR
136(a).		
sposition of Claims		
Claim(s) 1-79		is/are pending in the application
Of the above, claim(s)		is/are withdrawn from consideration
Claimles A2-79		is/are allowed. is/are rejected.
Claim(s) 1-30 32 37-41		is/are objected to.
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pplication Papers		
See the attached Notice of Draftsperson's Pater	nt Drawing Review, PTO-948.	s to the a reposition
The drawing(s) filed on	is/are object	cted to by the Examiner. is approved disapproved.
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The specification is objected to by the Examine	r. eminer	
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rlority under 35 U.S.C. § 119		
Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d)	).
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received in this national stage application t	from the International Bureau (PCT F	Mule 17.2(a)).
*Certified copies not received:		
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Attachment(s)		
Notice of Reference Cited, PTO-892		- E
Information Disclosure Statement(s), PTO-144	9, Paper No(s).	
Interview Summary, PTO-413		
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Notice of Draftperson's Patent Drawing Review		

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Serial Number 746,755 Art Unit 3305

Claims 1-30, 32, 37, 39 and 40 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-59 of copending application serial no. 08/628,490. Although the conflicting claims are not identical, they are not patentably distinct from each other because both applications are claiming the essential features of providing prize redemptions in a game apparatus.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

The obviousness-type double patenting rejection is a judicially established doctrine based upon public policy and is primarily intended to prevent prolongation of the patent term by prohibiting claims in a second patent not patentably distinct from claims in a first patent. *In re Vogel*, 164 USPQ 619 (CCPA 1970).

A timely filed terminal disclaimer in compliance with 37 C.F.R. § 1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. § 1.78(d).

Claims 1-30, 32, 37, 39 and 40 are provisionally rejected under 35 U.S.C. 103(a) as being obvious over copending Application No. 08/628,490 which has a common inventor with the instant application. Based upon the

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earlier effective U.S. filing date of the copending application, it would constitute prior art under 35 U.S.C. 102(e) if patented. This provisional rejection under 35 U.S.C. 103(a) is based upon a presumption of future patenting of the conflicting application. Claims 1-30, 32, 37, 39 and 40 of the instant application are an obvious variation of the disclosure of copending Application No. 08/628,490 because the disclosure sets forth the essential features of how a player redeems gifts and prize credits.

This provisional rejection might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the copending application was derived from the inventor of this application and is thus not the invention "by another," or by a showing of a date of invention for the instant application prior to the effective U.S. filing date of the copending application under 37 CFR 1.131.

Claims 27-41 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

With respect to claim 27, the claim is indefinite because it lacks a period.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

"A person shall be entitled to a patent unless -

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> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States."

Claims 1-30, 32, 37, 39 and 40 rejected under 35 U.S.C. § 102 (b) as being clearly anticipated by Koza et al '324.

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) and (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 38 and 41 are rejected under 35 U.S.C. 103 as being unpatentable over Koza et al '324.

Koza et al show all of the claimed features except for the prize input being received from a remote apparatus linked to the computer apparatus and the operator manually adjusting the prize information to provide a desired amount of the payout.

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One of ordinary skill in the art would have found it obvious to receive the prize input from a remote apparatus linked to the computer apparatus because it is well known in the art to receive a prize from a different location from where is actually won, and one of ordinary skill in the art would have found it obvious to provide the operator with means for manually adjusting the prize information to provide a desired amount of the payout because this represents an obvious modification of money wagered to payout received.

Claims 31, 33-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Miguel et al '349 disclose a tournament system in which intergame communications and user-selectable menu items are provided.

Tillery et al '094 teaches remote crediting gaming machines.

An inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel, whose telephone number (703)-308-2118. The examiner can normally be reached on Monday - Thursday from 7:30 AM to 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marvin Lateef, can be reached on (703)-308-3256. The fax phone number for this Group Art Unit is (703)-308-0131.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703)-308-0858.

George Manuel PRIMARY EXAMINER ART UNIT 3305

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	Notice of Ref	erences Cited	4	Application No. 746755	Applicant(s		z + a	1.
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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFIC

In re the application of

MATTHEW F. KELLY et al.

Serial No.: 08/746,755

Filed: November 14, 1996

For: PRIZE REDEMPTION SYSTEM FOR GAMES Examiner: Not Assigned Art Unit: Not Assigned

January 31, 1997

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231 on January 31, 1997.

Signed: 11, 1000 1011 211018 Melissa Van Trease

### **RESPONSE TO NOTICE TO FILE MISSING PARTS**

Commissioner of Patents and Trademarks Washington, D.C. 20231

Sir:

Enclosed herewith are the original, executed Declaration and Power of Attorney for Patent Application and Assignment, in response to the Notice to File Missing Parts of Application--Filing Date Granted mailed December 10, 1996. Please file these documents in the subject application.

Enclosed is our Check No. <u>6075</u> for <u>\$2478.00</u> in payment of the filing fee, surcharge and assignment recording fee. The Commissioner is authorized to charge any other fees that may be due to our Deposit Account No. 08-2120 (Order No. <u>LAZ1P026</u>). A duplicate copy of this sheet is enclosed for this purpose.

Respectfully submitted, HICKMAN BEYER & WEAVER

Paul L. Hickman Reg. No. 28,516

P.O. Box 61059 Palo Alto, CA 94306 (415) 493-6400

Attorney Docket No. LAZ1P026

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An oath or declaration in compliance with 37 CFR 1. 63 the above Application Number and Filing Date is required.</li> <li>The signature(s) to the oath or declaration is/are:         <ul> <li>mlssing.</li> <li>by a person other than inventor or person qualified A properly signed oath or declaration in compliance with Application Number and Filing Date, is required.</li> </ul> </li> <li>The signature of the following joint inventor(s) is missing An oath or declaration listing the names of all inventors the above Application Number and Filing Date, is required</li> <li>A \$ processing fee is required since</li> <li>Your filing receipt was mailed in error because your che See attached Notice to Comply with the Sequence Rules 33</li> </ul>	<ul> <li>does not identify the application to which it applies.</li> <li>does not include the city and state or foreign country of applicant's residence the above Application Number and Filing Date is required.</li> <li>The signature(s) to the oath or declaration is/are:</li> <li>missing.</li> <li>by a person other than inventor or person qualified under 37 CFR 1.42, A properly signed oath or declaration in compliance with 37 CFR 1.63, ident Application Number and Filing Date, is required.</li> <li>The signature of the following joint inventor(s) is missing from the oath or declaration listing the names of all inventors and signed by the oath or declaration Number and Filing Date, is required.</li> <li>A noath or declaration listing the names of all inventors and signed by the oath or declaration Number and Filing Date, is required.</li> <li>A \$ processing fee is required since your check was retured.</li> <li>Your filing receipt was mailed in error because your check was returned with the application does not comply with the Sequence Rules 101/107/107/107/107/107/107/107/107/107/</li></ul>	<ul> <li>does not identify the application to which it applies.</li> <li>does not include the city and state or foreign country of applicant's residence. An oath or declaration in compliance with 37 CFR 1. 63, including residence information and the above Application Number and Filing Date is required.</li> <li>The signature(s) to the oath or declaration is/are:</li> <li>missing.</li> <li>by a person other than inventor or person qualified under 37 CFR 1.42, 1.43, or 1.47. A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application Number and Filing Date, is required.</li> <li>The signature of the following joint inventor(s) is missing from the oath or declaration:</li> <li>An oath or declaration listing the names of all inventors and signed by the omitted inventor(s the above Application Number and Filing Date, is required.</li> <li>A \$</li></ul>	<ul> <li>does not identify the application to which it applies.</li> <li>does not include the city and state or foreign country of applicant's residence. An oath or declaration in compliance with 37 CFR 1. 63, including residence information and identifying the application the above Application Number and Filing Date is required.</li> <li>The signature(s) to the oath or declaration is/are:</li> <li>missing.</li> <li>by a person other than inventor or person qualified under 37 CFR 1.42, 1.43, or 1.47. A property signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.</li> <li>The signature of the following joint inventor(s) is missing from the oath or declaration:</li> <li>An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application the above Application Number and Filing Date, is required.</li> <li>A \$ processing fee is required.</li> <li>A \$ processing fee is required since your check was returned without payment (37 CFR 1.21(m)).</li> <li>Your filing receipt was mailed in error because your check was returned without payment.</li> <li>The application does not comply with the Sequence Rules 37 CFR 1.821-1.825, 00 CK.</li> </ul>

Initial Patent Examination Division (703) 308-1202

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### TION AND POWER OF ATTORNEY DECLAR FOR ORIGINAL U.S. PATENT APPLICATION

Attorney's Docket No. LAZ1P026

As below-named inventors, we hereby declare that:

1.

Our residence, post office address and citizenship are as stated below next to our names.

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled: PRIZE REDEMPTION SYSTEM FOR GAMES, the specification of which,

(check one)

is attached hereto.

2. <u>X</u>	was filed on <u>November 14, 1996</u>	a	s
	U.S. Application Serial No08/ and was amended on	746,755	
3.	was filed on		s
	International PCT Application Serial N and was amended on	ło	Ì

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, CFR §1.56.

We hereby claim foreign priority benefits under Title 35, United States code, § 119 of any foreign application(s) for patent or inventors' certificate listed below and have also identified below any foreign application for patent or inventors' certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign App	lication(s)		Priority Benefits Claimed? <u>Yes</u> No
(Appl. No.)	(Country)	(Date Filed- Day/Month/Year)	_ 105 _ 100
(Appl. No.)	(Country)	(Date Filed- Day/Month/Year)	_Yes _No
(Appl. No.)	(Country)	(Date Filed- Day/Month/Year)	_Yes _No

We hereby claim the benefit under Title 35, United Sates Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this applications is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

### Prior U.S. Application(s)

08/628,490	04/05/96	Pending
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)

And I hereby appoint the law firm of h. aman & Beyer, including Paul L. Hickman (Keg. No. 28, 516); Steve D Beyer (Reg. No. 31,234); Jeffrey K. Weaver (Reg. No. 31,314); David P. Lentini (Reg. No. 33,944); Joseph A. Nguyen (Reg. No. 37,899); C. Douglass Thomas (Reg. No. 32,947); Jonathan O. Scott (Reg No. 39,364); Albert S. Penilla (Reg. No. 39,487); James R. Riegel (Reg. No. 36,651); Brian R. Coleman (Reg. No. 39,145); Thomas A. Jolly (Reg. No. 39,241); Harmohinder S. Bedi (Reg. No. 39,904); Lee Van Pelt (Reg. No. 38,352); and James E. Austin (Reg. No. 39,489) as my principle attorneys to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Send Correspon	ndence	To:
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Paul L. Hickman HICKMAN BEYER & WEAVER P.O. BOX 61059 Palo Alto, California 94306

Direct Telephone Calls To:

Paul L. Hickman at telephone number (415) 493-6400

We hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Typewritten Full Name of Sole or First Inventor:	Matthew F. Kelly	Chinesekier	110
Sole of First Inventor.	Mainew F. Keny	Citizenship:	US
Inventor's signature:	* Matthew fully	Date of Signature: 🗶	19/91
Residence: (City)	San Ramon	(State/Country)	CA, USA
Post Office Address:	277 Winterside Circle, San Ramon, CA 94583		
Typewritten Full Name of Second Inventor (if any):		Citizenship:	US
Inventor's signature:	2	Date of Signature: <u>x</u>	1.1
Residence: (City)	Almo	(State/Country)	CA, USA
Post Office Address:	24 Holiday Drive, Almo, CA 94507		
Full Name of Third Joint Inventor (if any):	Norman B. Petermeier	Citizenship:	US
Inventor's signature:	xorman BP. etermerer	Date of Signature: <u>X</u>	19/97
Residence: (City)	Saratoga Pleasanton 1092 Piedmonte Drive, Pleasanton	(State/Country)	CA, USA
Post Office Address:	14168 Okanogan Drive, Saratoga, California 95070		
Typewritten Full Name of Fourth Inventor:	John G. Kroeckel	Citizenship:	US
rourur mventor.		a second s	0 01
Inventor's signature:	×+11 9 MM	Date of Signature:🗶	95an 97
Residence: (City)	San Leandro	(State/Country)	CA,USA
Post Office Address:	976 Joaquin Avenue, San Leandro, CA 94577		

		<u>j</u> (* 1
Typêwritten Full Name of		
Third Inventor: John E. Link	Citizenship:	US
Inventor's signature: And E. and	Date of Signature	x1/9/97
Residence: (City) Tracy	(State/Country)	CA.USA
Post Office Address: <u>763 Saddleback Court, Tracy, CA 95376</u>		

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UNITED STATES DEPARTMENT OF COMMERCE Patent and Tradomark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NO./TITL
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08/746,755 11/14/96 KELLY

LAZ1P026

0272/1210

HICKMAN BEYER AND WEAVER P O ROX 61059 PALO ALTO CA 94306

> 3304 DATE MAILED:

M

12/10/96

#### NOTICE TO FILE MISSING PARTS OF APPLICATION Filing Date Granted

An Application Number and Filing Date have been assigned to this application. However, the items indicated below are missing. The required items and fees identified below must be timely submitted ALONG WITH THE PAYMENT OF A SURCHARGE for items 1 and 3-6 only of \$\_\_\_\_\_\_\_\_ for a Targe entity Targe entity in compliance with 37 CFR 1.27. The surcharge is set forth in 37 CFR 1.16(e). Applicant is given TWO MONTHS FROM THE DATE OF THIS NOTICE within which to file all required items and pay any fees required above to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

1. The statutory basic filing fee is:

i missing.

□ insufficient. Applicant must submit \$ 770.00

Applicant must submit \$\_\_\_\_\_\_ to complete the basic filing fee and/or file a verified small entity statement claiming such status (37 CFR 1,27).

2. Additional claim fees of \$ 1538.00, including any multiple dependent claim fees, are required. Applicant must either submit the additional claim fees or cancel additional claims for which fees are due.

# 3. The oath or declaration:

is missing.

- does not cover the newly submitted items.
- does not identify the application to which it applies.
- does not include the city and state or foreign country of applicant's residence.

An oath or declaration in compliance with 37 CFR 1. 63, including residence information and identifying the application by the above Application Number and Filing Date is required.

- 4. The signature(s) to the oath or declaration is/are:
  - missing.
  - by a person other than inventor or person qualified under 37 CFR 1.42, 1.43, or 1.47.

A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.

5. The signature of the following joint inventor(s) is missing from the oath or declaration:

An oath or declaration listing the names of all inventors and signed by the omitted inventor(s), identifying this application by the above Application Number and Filing Date, is required.

6. A \$\_\_\_\_\_\_ processing fee is required since your check was returned without payment (37 CFR 1.21(m)).

7. Your filing receipt was mailed in error because your check was returned without payment.

8. The application does not comply with the Sequence Rules.

See attached "Notice to Comply with Sequence Rules 37 CFR 1.821-1.825."

9. OTHER:

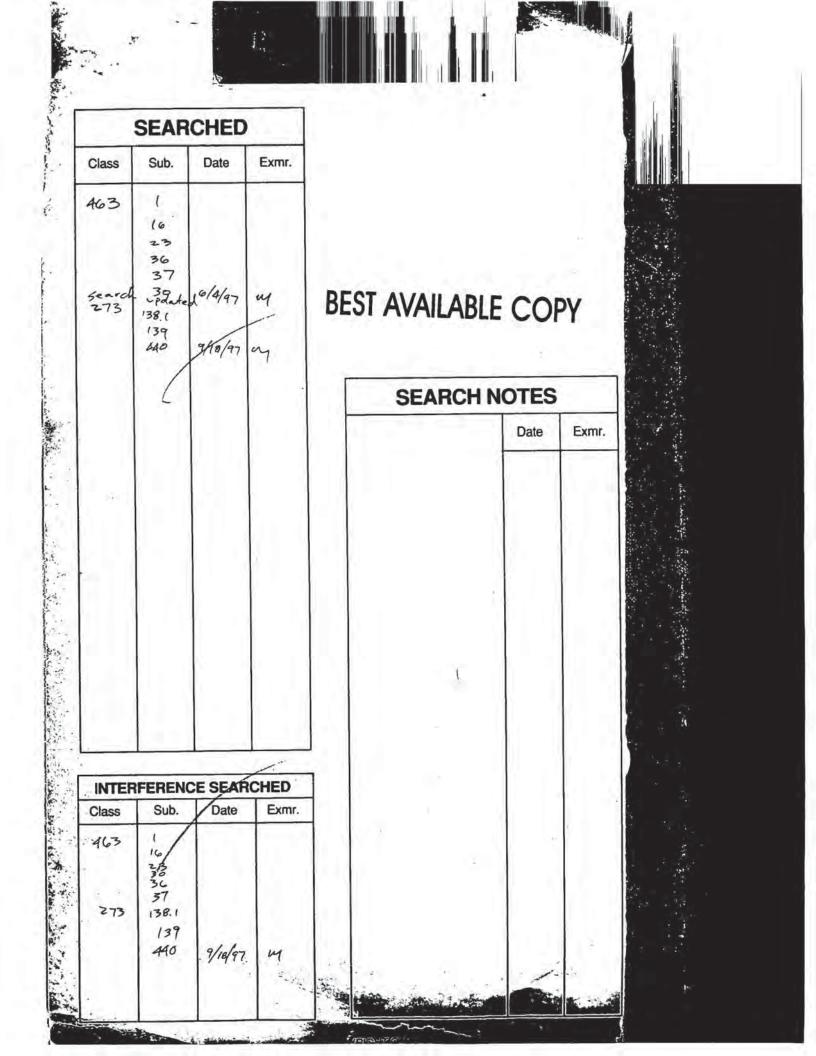
Direct the response and any questions about this notice to "Attention: Box Missing Parts."

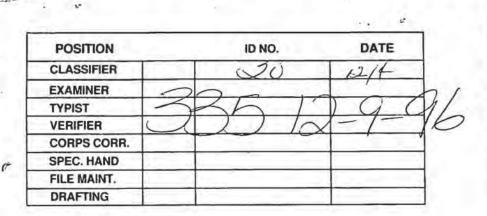
A copy of this notice MUST be returned with the response.

Customer Service Center Initial Patent Examination Division (703) 308-1202

PART 3 - OFFICE COPY

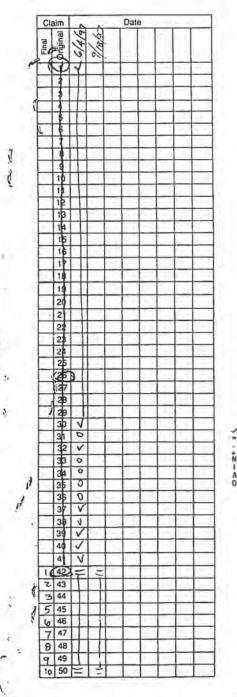
UTILITY PATENT DATE PATENT 08746755 SERIAL PIO OCT - 6 1998 NUMBER NUMBER All all more SERIAL NUMBER FILING DATE CLASS SUBCLASS GROUP ART UNIT EXAMINER 08/746.755 11/14/96 463 3304 11 ... 1 + 11 MATTHEW F. KELLY, SAN RAMON, CA; BRYAN M. KELLY, ALMO, CA; NORMAN B. PETERMEIER, PLEASANTON, CA; JOHN G. KROEDKEL, SAN LEANDRO, CA: JOHN E. LINK, TRACY, CA. \*\*CONTINUING DATA\* THIS APPLN IS A CIP OF VERIFIED 08/628,490 04/05/96 m. \*\*FOREIGN/PCT APPLICATIONS\*\*\*\*\*\*\*\*\*\* VERIFIED **BEST AVAILABLE COPY** In FOREIGN FILING/LICENSE GRANTED 03/02/97 all Foreign priority claimed 35 USC 119 conditions met 10 10 STATE OR SHEETS TOTAL B INDEP Ves FILING FEE ATTORNEY'S AS Ves COUNTRY DRWGS. CLAIMS CLAIMS FILED RECEIVED DOCKET NO. Verified and Acknowledged Examiner's Initials 10 18 59 438 AZ1P026 PAUL L HICKMAN HICKMAN BEYER AND HKKMA FMARTINE F 0 BOX 61059 P.C HOO BOX 52037 PALO ALTO CA FARO ALTO CA 04303 -0740 PRIZE REDEMPTION SYSTEM FOR GAMES JIII U.S. DEPT. OF COMM./ PAT. & TM-PTO-436L (Rev.12-94) PARTS OF APPLICATION 23 FILED'SEPARATELY K Applications Examine NOTICE OF ALLOWANCE MAILED CLAIMS ALLOWED Total Claims Print Claim ١ 77 Assistant Examiner **ISSUE FEE** PAWING Amount Due Date Paid Sheets Drwg. Figs. Drwg. Print Fig 645.00 20 18 ISSUE ge M lanue BATCH Primary Examiner NUMBER PREPARED FOR ISSUE Label Area 2 The information disclosed herein may be restricted. Unauthorized disclosure may be prohibited by the United States Code Title 35, Soutions 122, 181 and 368. Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only. WARNING: Form PTO-(Rev. 8/92) of 17 (FACE)





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Transmitted herewith for filing is the patent application of Inventor(s):

Matthew F. KELLY, Bryan M. KELLY, Norman B. PETERMEIER, John G. KROECKEL, and John E. LINK

For: C	PRIZE REDEMPTION SYSTEM FOR GAMES
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	Respectfully submitted,

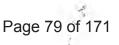
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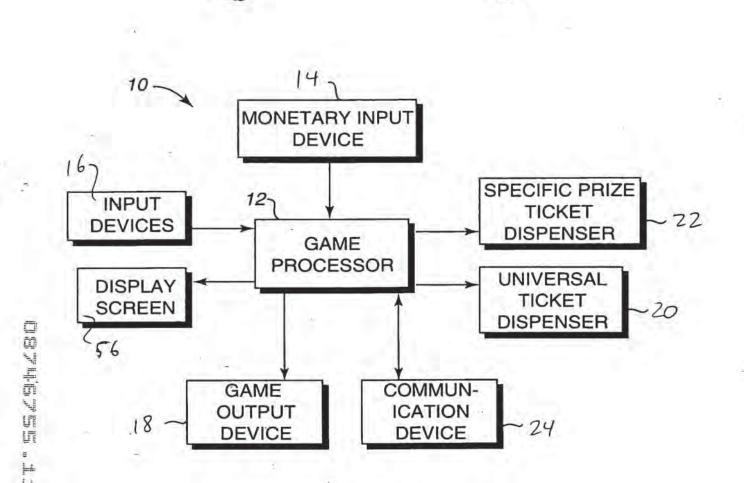
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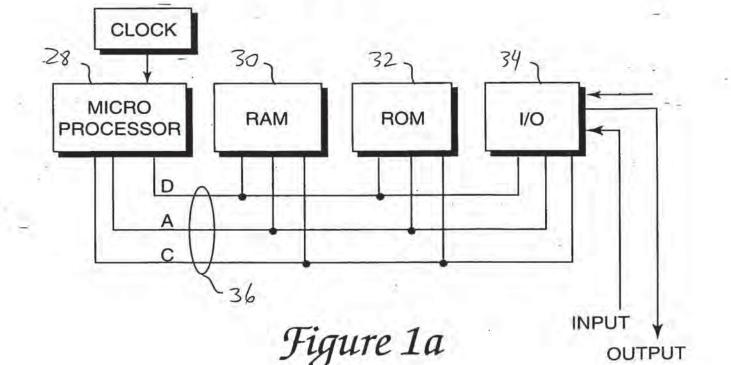
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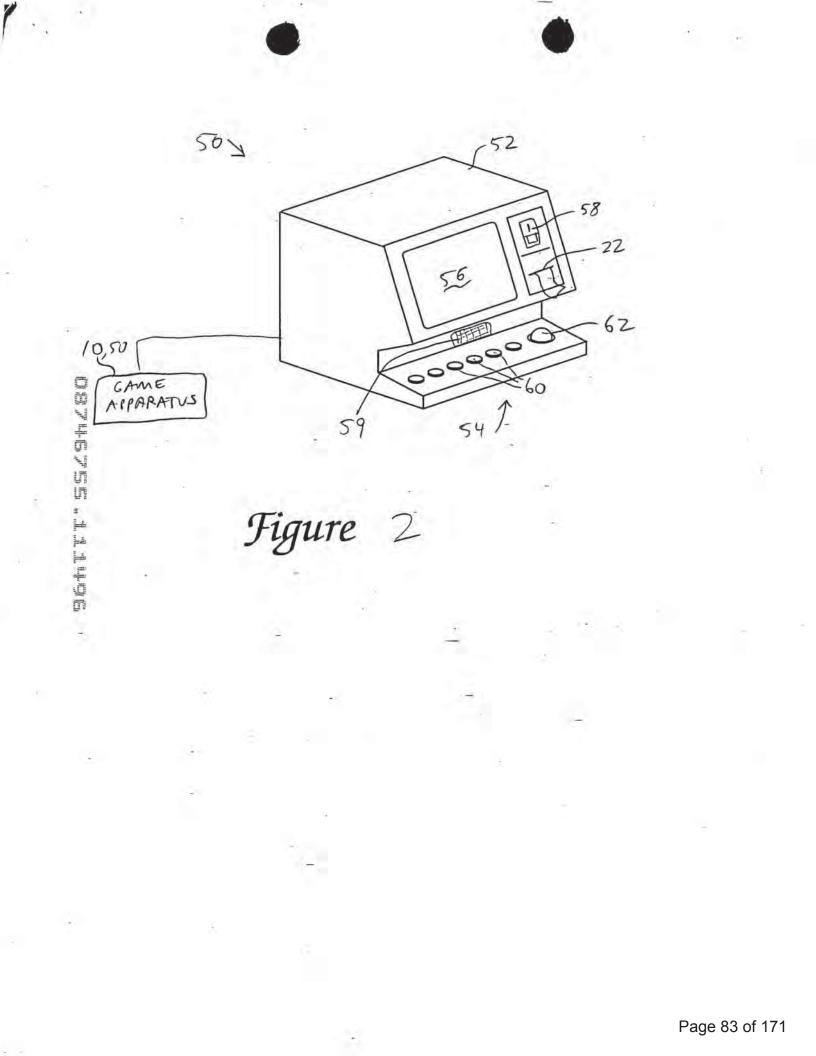
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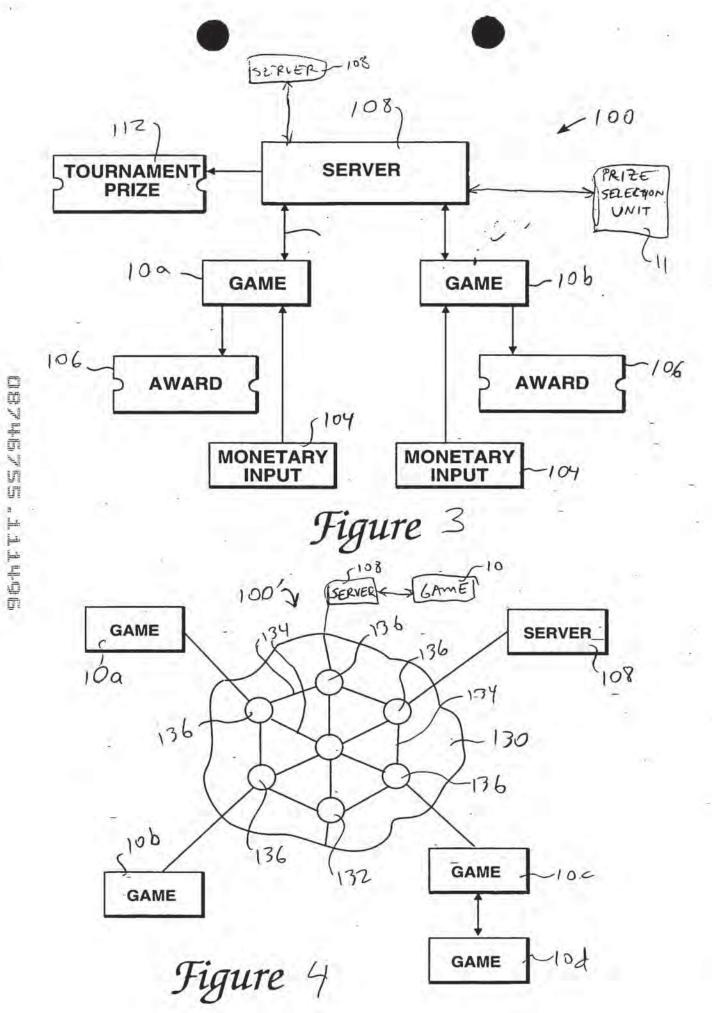
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Figure 1



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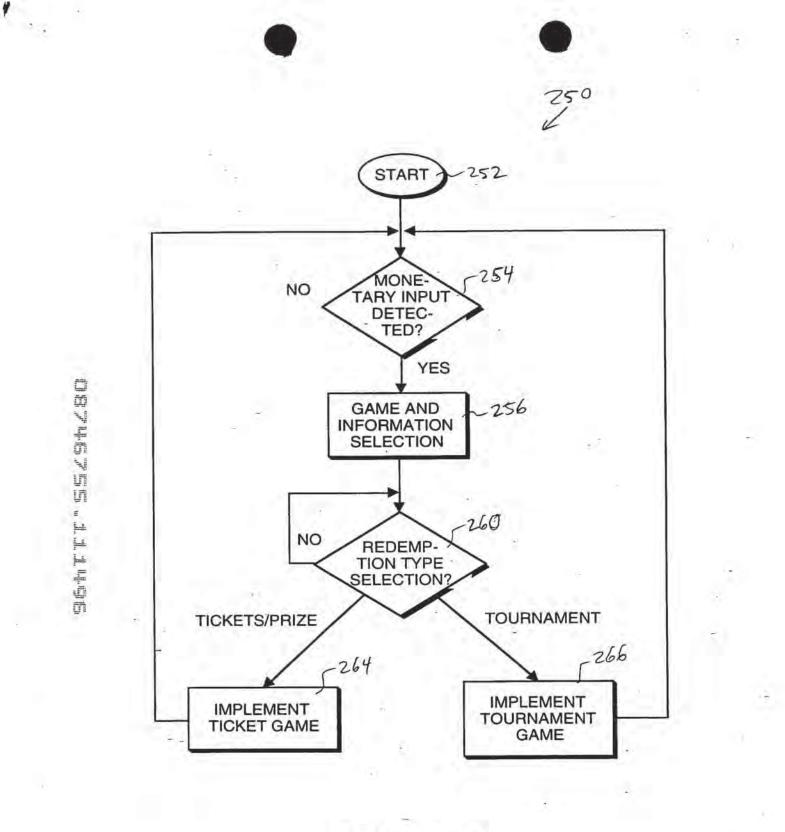


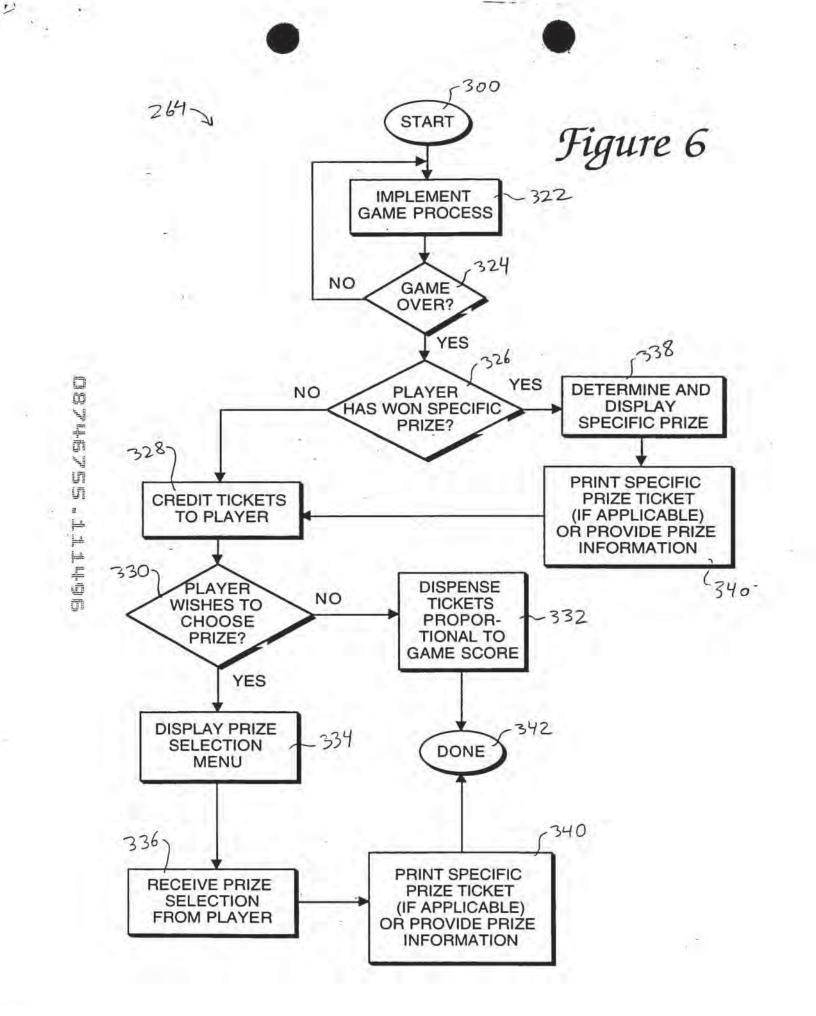
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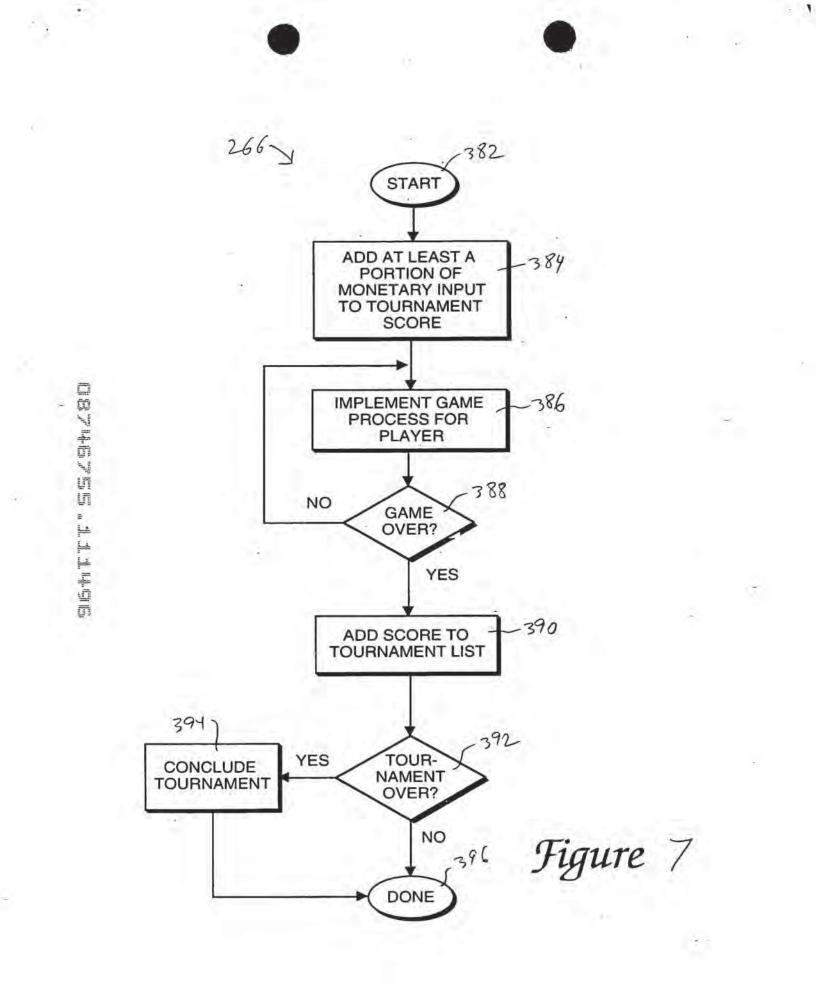
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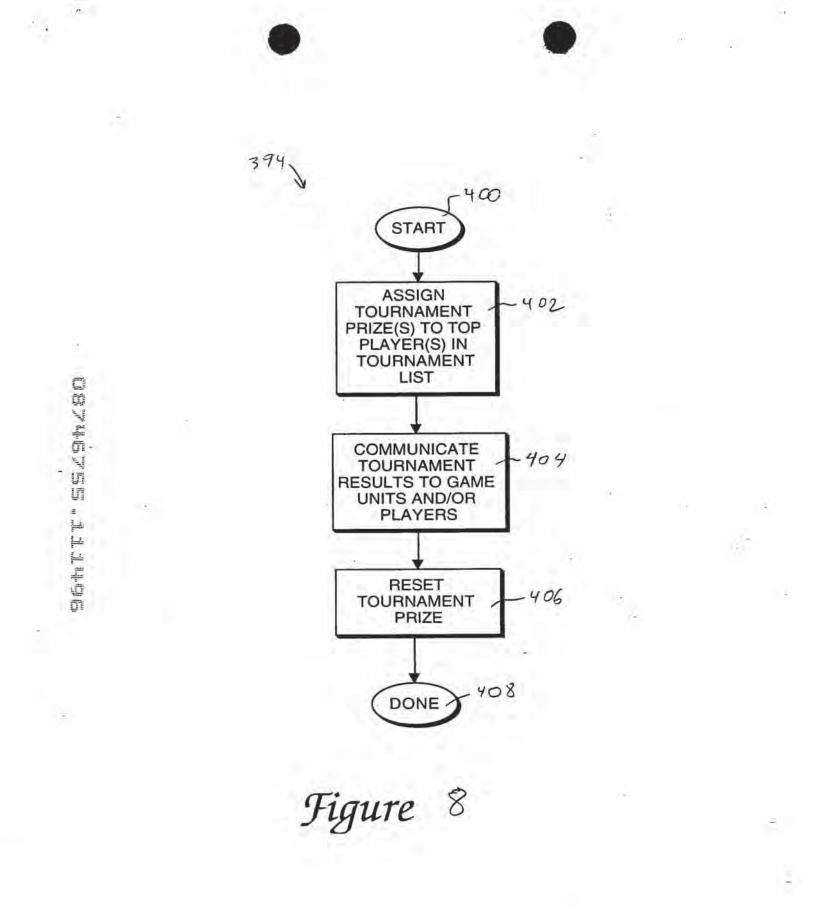


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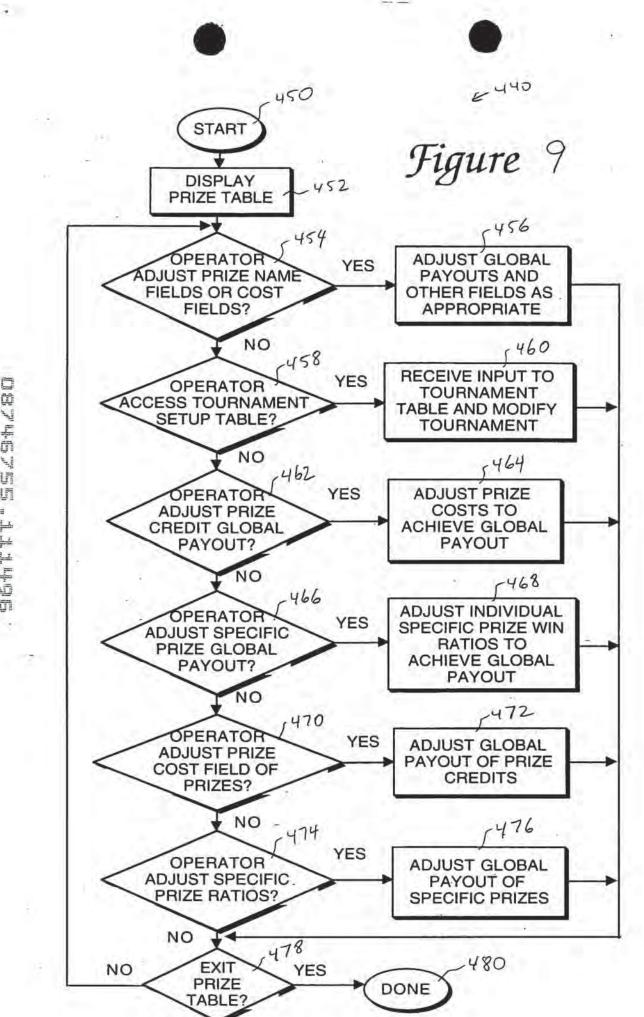
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Insta-Prize Global Payout % -1% 10% +1%	Prize Credits to Win Insta-Prize Win Ratio	1 in 8	1 in 12	1 in 10	02 ni 1	1 in 40	1 in 120	1 in 160	1 in 320	1 in 2000	1 in 4000
o Global Payout % -1% 20% +1%	ost Prize Credits to Win	. 40	90	-50	100	200	600	\$00	1600	10000	1984
2	482 Your Actual Cost	07:0\$.	\$0.30	\$0.25	\$0.50	\$1.00	\$3.00	\$4.00	\$\$.00	\$20'00	184 1184
Prize Setup Screen	List of available Prizes	Cala Drink	Candy Bat	Free Game	Glass of Beer	Pitcher of Beer	Small Pizza	T-Shirt	\$20 Gift Certificate	Portable CD Player	Video Game Cansole.

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121 Repeat Tourney YES QN C208 C210 515 End 23:00 12:00 c6h 3/20/97 2/14/97 End Start Time 2/20/97 14:00 8:00 506 2/1/97 Start 10% 1st 2nd 3rd 4th 5th Place Place Place Place %0 **TOURNAMENT SETUP SCREEN** WINNING % FOR PLACES 15% 10% %0 Chos 10% 25% 30% 40% %09 C205 Cost per % Applied to Seed Game Tournament Money (in coins) Prize \$50 \$30 005 J 50% 30% -864 7 --Games Required 4964 3 -Tournament On/Off NOT AVAIL. 494, OFF NO NO SCUD ATTACK SOLITAIRE FUN 21 QUIZ GAME 1264

Figure 🥡 9b

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#### **BY INVENTORS**

Matthew F. Kelly Bryan M. Kelly Norman B. Petermeier John G. Kroeckel John E. Link

#### CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of co-pending parent patent application serial no. 08/628,490, filed 4/5/96, on behalf of Bryan M. Kelly et al., entitled, "REDEMPTION GAME FOR AWARDING SPECIFIC PRIZES", assigned to the assignee of this present application, and which is hereby incorporated by reference herein in its entirety.

### **BACKGROUND OF THE INVENTION**

### Field of the Invention

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This invention relates to games normally played in an arcades and other environments, and more particularly to redemption games allowing a player to receive one or more prizes in connection with playing the game.

# 30 Background of the Related Art

Games of many types are played in bars, arcades, homes, and other public and private establishments. In bars, taverns, and like places, games can be provided on bar tops, side tables, and other areas. These games typically include a video screen and buttons or other controls for the player to influence objects and events portrayed on the video screen. Common "bar-top" games include card games (poker, blackjack, solitaire, etc.), quiz games, sports games, and the like. Bar-top games typically provide a score based on the player's performance during the game, and may also provide a high score list which provides incentives for players to perform well.

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In game arcades, convenience stores, and the like, more involved games are often offered, such as stand-up arcade video games, pinball games, and mechanical or carnival games. Some of these types of games are offered as redemption games which dispense redemption tickets to players based on player performance during the game and/or a game score that the player achieves. A player can exchange dispensed redemption tickets for prizes available at a prize display area, such as a prize booth or prize vending machine, where such prizes as stuffed animals, models, other toys, small music devices, T-shirts, food, etc. are available. Each prize has an associated cost or "price" in terms of redemption tickets which the player can pay to redeem the prize. A player may collect tickets over time to save up for larger prizes that may have higher ticket prices.

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One problem with the redemption games of the prior art is that maintaining a redemption system can be very involving for the operator of the arcade, to the point of being burdensome. For example, operators must maintain a prize booth or vending machine which displays all the prizes the operator wishes to make available. Requiring even greater maintenance is the setting and adjustment of ticket costs or prices of the prizes. The operator must determine how many tickets are paid, on average, by each game in the arcade and then determine the price of each prize in terms of tickets and in view of a desired profitability level. The operator knows the cost of the prizes that he or she paid, can come up with a crude estimate of average ticket payouts to players, and can thus estimate ticket costs with a rough profitability in mind, but the task can become overwhelming when a large variety of prizes are offered and many different types of games can be played, each game having a different ticket payout and difficulty level. Many arcade operators end up simply providing very gross estimates of what prizes should be worth in tickets, with no exact or global level of profitability in mind. This may lead to extra or unknown costs which can be magnified over time when large numbers of prizes are redeemed by players.

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In addition, the prior art redemption games and redemption systems are not suitable for bars, taverns, and other, non-arcade public places, such as stores, hotels, food establishments, etc. There is a very large potential pool of redemption game players in such places. This is because the games typically offered in bars and like places often have low appeal to players due to the absence of any sort of tangible award or prize that is received by playing the game. For example, the bar-top and other games typically found in bars may quickly get uninteresting if the only reward a player receives is to put his or her name on a high-score list.

However, non-traditional gaming environments such as bars are not very suitable for supporting redemption systems like those found in gaming arcades. The proprietor or bartender of the non-arcade environment often does not want to provide a booth or area



PATENT LAZIP026

to display available prizes for players due to the additional maintenance and staff needed for such a display area. More importantly, the proprietor typically does not have the knowledge to properly adjust payouts of redemption games and offer prizes with proper and profitable ticket costs. Even if the proprietor has such knowledge, the small numbers of games and/or the secondary role of games in non-traditional gaming environments does not warrant providing a prize display area and does not warrant the abovementioned overhead of providing and counting the many tickets that players may accumulate and providing/maintaining ticket costs for various prizes in view of a desired profitability of the games.

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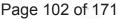
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Other gaming environments for players include homes or other private places. Players have been able to play board games, computer games, video games, etc. at home or other private environments for a long time. However, with the widespread use of standardized large-scale networks such as the Internet and World Wide Web in recent years, players of video and computer games at home are offered an environment to compete with each other which was not widely available to game players before. A player can connect a home computer, video game console, set top box, or other device to the Internet using telephone lines, cable TV lines, or other connections to the home. The player can thus play games offered to the player from a remote server or other source. The player can also compete or otherwise interact in a game with hundreds or even thousands of other players who are also connected to the Internet.

However, although a wide array of options are available for home game players, players typically cannot play games from home to receive prizes. Players may often desire to receive a prize after playing a game or participating in a tournament, but no standardized prize redemption system is provided to home players. Any administrator of such a prize redemption system faces the same problems and overhead as described above when attempting to organize ticket winnings and offer prizes at ticket costs adjusted for a desired profitability.

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PATENT LAZIP026



## SUMMARY OF INVENTION

The present invention provides a prize redemption system and method for use with one or more game apparatuses. Players may win "prize credits" by playing the game apparatus, and may then select a prize from a prize menu offered on the game apparatus. The selected prizes and specific prizes may be redeemed using specific prize tickets or coupons. The operator can provide cost and prize data and a desired level of profitability, and prize credit costs for prizes are automatically determined. These improvements greatly reduce the time and costs of maintaining a redemption system for games, and thus allow redemption games to be offered in wholly new, non-traditional redemption and gaming environments.

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More specifically, the prize redemption system and method of the present invention provides a game on a game apparatus for a player to play, preferably in exchange for monetary input. The game apparatus, for example, can take the form of a bar-top-style game console including a game processor, display screen and player controls. A number of prize credits are provided to the player based on an outcome of the game and optionally accumulated from previous games. In some embodiments, the outcome of the game is influenced by skill of the player. A prize selection menu is then displayed for the player, the menu including one or more selectable prizes. The prize selection menu may include a prize cost in terms of prize credits for each of the displayed prizes and which can be determined by the redemption system. Finally, the player inputs an indication of a selection of a prize using an input device. The player may select a prize that has a prize cost equal to or less than the number of prize credits the player has won. The selected prize is provided to the player after this selection. In one described embodiment, the player receives a specific prize ticket or coupon from a dispenser, where the specific prize ticket is redeemable for the selected prize.

In the preferred embodiment, at least one specific prize goal may also be achieved during a game, using skill or by chance. If a specific prize goal is achieved, the player receives a specific prize which can be determined from a prize table listing specific prizes that can be won by a player. The game apparatus can provide many types of games and options for games. For example, an option can be provided to the player for playing a tournament game for a tournament prize contributed to by multiple players of the game apparatus and other linked game apparatuses. Examples of games offered by the game apparatus include action video games which provide a player with opportunities to utilize dexterity and play duration in increasing game score, card games in which the outcome of

> PATENT LAZIP026 Page

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the game is, in part, randomly influenced, quiz games providing questions to which said player responds, slot machine games, electromechanical redemption games, etc.

The game apparatus can also be linked to multiple other game apparatuses to provide simultaneous multi-player games and tournaments including players from several different game apparatuses. A server linked to the multiple game apparatuses can store or control prize information and/or tournament information. Players of the linked game apparatuses may choose prizes from a central prize database communicated to the game apparatuses.

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In another aspect of the present invention, the redemption system provides an operator the ability to adjust prizes and determine desired prize costs and win ratios. A prize table is displayed on a game apparatus or other computer system. Prize input is received from the operator or other source (e.g., remote server) and displayed in the prize table. The prize input describes multiple prizes that are to be available in the redemption system to players of the game apparatus in exchange for prize credits won by the player and as specific prizes. The prize input also may include an actual monetary cost of each of the prizes. The operator wishes to provide back to players of the game apparatus in terms of the value of the prizes. Finally, prize information is automatically determined for each of the prizes, the prize information being determined in view of a desired profitability of the game apparatus.

For prizes won by prize credits and selected by a player, the prize information is a prize cost for each of the prizes in terms of prize credits. The prize cost is determined in accordance with the operator's desired amount of payout. The payout input for credit prizes may include a global payout percentage value that is the operator's desired percentage of the monetary income earned by the game apparatus that the operator wishes to provide back to players in the form of the prizes won using prize credits. 30 Operators can also manually adjust prize costs if desired.

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For specific prizes won on the game apparatus, the determined prize information includes a win ratio for each of the prizes in terms of how frequently that the particular prize is awarded when a specific prize goal is met. The win ratio is determined in accordance with the operator's desired amount of payout. The payout input for specific prizes includes a global payout percentage that is the operator's desired percentage of the monetary income earned by the game apparatus that the operator wishes to provide back to players in the form of specific prizes. The operator can also manually adjust win ratios

if desired. Tournament characteristics and payouts can be similarly adjusted by the operator using a tournament setup table.

The redemption system and game apparatus according to the present invention offer a comprehensive prize system that provides a player with immediate and easy to select prize choices. The player can quickly determine what prizes are available on the same game apparatus which the game was played and select a desired prize. The players can also win a specific prize. The players may immediately get a specific prize ticket that is redeemable for their selected prize or specific prize, thus avoiding the time and money of accumulating large numbers of dispensed tickets to purchase prizes. Player involvement with the redemption games is thus increased.

Furthermore, the redemption system of the present invention vastly decreases operator involvement in a prize redemption system and the overhead of maintaining a prize structure for redemption games. An operator need only input desired prizes and a desired percentage of income that is to be paid back to players, and the system can automatically determine prize credit costs and win ratios for the entered prizes which achieve the desired profitability of the game apparatus. These entered prizes and prize costs are then automatically provided to players on the game apparatus. This reduces the operator's need to update prizes and prize costs and provides a far more exact system for maintaining prizes and achieving a desired profitability of offered games, thereby reducing operating and maintenance costs of redemption games and allowing redemption games to be provided in non-traditional gaming environments.

These and other advantages of the present invention will become apparent to those skilled in the art after reading the following descriptions and studying the various figures of the drawings.

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# BRIEF DESCRIPTION OF THE DRAWINGS

FIGURE 1 is a diagrammatic illustration of a game apparatus suitable for use with the present invention;

FIGURE 1a is a block diagram of a game processor used in the game apparatus of Figure 1;

FIGURE 2 is a perspective view of a preferred embodiment of the game apparatus of Figure 1;

FIGURE 3 is a block diagram showing an embodiment of the present invention for implementing networked game apparatuses;

FIGURE 4 is a block diagram of game units networked using wide area network such as the Internet;

FIGURE 5 is a flow diagram illustrating a process of the present invention for implementing a redemption system of the present invention on one or more individual game units;

FIGURE 5a is a diagram illustrating a display shell on a display screen of the game apparatus for use with the redemption system;

FIGURE 5b is a diagram illustrating a selection screen of the game apparatus;

FIGURE 5c is a diagram illustrating a promotion on the display screen of the 20 game apparatus;

FIGURE 5d is a diagram illustrating an advertisement on the display screen of the game apparatus;

FIGURE 6 is a flow diagram illustrating a method of implementing a nontournament prize game in the process of Figure 5;

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FIGURE 6a is a diagram illustrating an example of game score and prize credits won by a player as displayed on the display screen of the game apparatus;

FIGURE 6b is a diagram illustrating a prize selection menu on the display screen of the game apparatus;

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FIGURE 6c is a diagram illustrating a graphical prize selection menu alternative to the menu shown in Figure 6b;

FIGURE 7 is a flow diagram illustrating a method of implementing a tournament game of the process of Figure 5;

FIGURE 8 is a flow diagram illustrating a method of concluding a tournament game of Figure 7;

FIGURE 8a is a diagram illustrating FIGURE 8a is a tournament standings display screen which is preferably displayed by the individual game unit after a selection of the tourney leaders button 282 or after a tournament is complete.

FIGURE 9 is a flow diagram illustrating a process of the present invention for adjusting prize characteristics of the redemption system;

FIGURE 9a is a diagram of a prize table suitable for use with the process of Figure 9; and

FIGURE 9b is a diagram of a tournament table suitable for use with the process of Figure 9.

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#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

FIGURE 1 is a block diagram of a generic game apparatus or "game unit" 10 suitable for use with the prize redemption system of the present invention. It should be noted that a variety of game architectures can be used to provide game play functions as well as access other game units and servers through networks, as described below. The particular architecture shown is a generic architecture using components typical to game apparatuses suitable for use with the present invention. Game unit 10 can take a variety of forms, including a video game apparatus having one or more display screens, a mechanical game having playing pieces and/or other moving mechanical parts, a personal computer system, a "network computer", a television including or connected to a microprocessor (e.g. a "set top box") for Internet or other information access, or other apparatus.

As described herein, the game unit 10 is used by a player in a "gaming environment." This term is intended to refer any location, public or private, in which games can be used. For example, public gaming environments include such places as arcades, stores, restaurants, bars, casinos, bowling alleys, stations, hotels, airports, airplanes, cruise ships, gymnasium, health club, or other public place that can offer the game unit for use by players and which can provide prizes to players of the game apparatus. A "gaming environment" need not ordinarily provide games to the public. In other embodiments, a "gaming environment" can be a private place such as a player's home or personal residence, office or other place of employment, private club, etc.

Game unit 10 in accordance with the present invention may include a game processor 12, monetary input device 14, player input device(s) 16, game output device(s) 18, a universal ticket dispenser 20, a specific prize ticket dispenser 22, and a communication device 24.

Game processor 12 implements (e.g., controls, influences, coordinates, monitors, calculates, etc.) the functions of the game unit 10 during a game process and includes several input and output functions. The game processor controls the game apparatus by receiving inputs from a player, from other game apparatuses, from a server (described below), from a progressive bonus apparatus, and from other sources. The game processor also controls output signals to update the game process when appropriate. In addition, the game processor controls the redemption system of the present invention by calculating when prizes are awarded, calculating and updating prize lists and prize costs, and other functions as described below. Game processor 12 preferably includes a digital

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microprocessor or similar controller device, and other electronic components which are described in further detail with respect to Figure 1a. The operation of game processor 12 is described in greater detail below. The game processor is preferably provided within a housing of game unit 10.

Monetary input device 14 is used to receive monetary input that is inserted by a player into the game apparatus in the gaming environment. For example, coins can be received in return for the player's use of the game apparatus. A coin deposit slot can accept standard currency coins, bills, or game tokens that may be available in the gaming environment, and also typically includes a coin return button and coin return slot. Once one or more coins are accepted, the coins are routed to a cash box and a signal is sent to game processor 12 to increase the player's game credits, i.e., to indicate to that one or more game plays have been paid for. Coin slots and boxes suitable for use in game unit 10 are readily available on the commercial market. Alternatively, other monetary input devices can be used, such as debit card or credit card readers well known to those skilled in the art, or "smart card" readers which can read and write electronic information to and from the card. For example, "E-cash", "cybercash" or other electronic monetary forms can be used. In other embodiments, user verification or validation can be input by the player, such as a player identification and/or password that, for example, allows a monetary value to be billed to a player or deducted from a player's monetary account at a bank or other institution. Herein, the term "monetary input" is intended to also refer to other types of player validation for use of a game in addition to those forms mentioned above. In alternate embodiments located in non-public gaming environments (e.g., at a user's home), or for other applications such as promotional uses of game apparatus 10, monetary input may not be necessary for the player to use game apparatus 10.

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Input devices 16 are used by a player or user to provide input to the game unit 10 to influence game events during a game process and to achieve one or more predetermined goals or tasks for scoring points and winning prizes or other types of awards. The input devices 16 can also be used to select prizes within the redemption system of the present invention. Alternatively, separate input controls can be used for the 30 prize functions of the game unit. Player input typically includes game commands provided by controlling devices 16 such as buttons, keyboard, dials, joystick controls, touch screen, track ball, mouse, gun device, steering wheel, foot pedals, speech input through a microphone, or any other input used in playing a game and providing selections. For example, the player can press a button to tilt a playing surface to guide a 35 playing piece, move a joystick to control a graphical object displayed on a video screen, or toss a playing piece into a target aperture having sensors to detect the presence playing piece. Each type of user input can provide a particular game command to the game

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processor 12, and the game processor interprets the commands and influences game states and game events in the game process accordingly.

Preferably, game unit 10 implements, a "game of skill", i.e., as referred to herein, a predetermined goal, task, or objective for a game should be accomplished in a skillful manner such that an outcome of the game is determined primarily by the amount of skill of the player. The greater the player's skill, the closer or more easily a desired goal in the game can be reached by the player. Points associated with the predetermined goals or objectives can be added to a game score such that a higher game score, on average, indicates a greater amount of skill by the player. For instance, a displayed object can be 10 skillfully aimed or directed using input devices 16 such as a joystick, buttons, steering wheel, etc. into or to avoid other objects using skill or dexterity involving hand-eye coordination.

Alternatively, a "game of chance" or other game that does not rely primarily on the skill of the player can be offered on game apparatus 10. For example, such games as slot machines, substantially random card games, roulette and the like may offer a player a chance to win large numbers of tickets or prize credits or other prizes of high value without requiring a high degree of skill.

Various other types of devices can also be included in game unit 10 as input devices 16 to allow the processor 12 to monitor the game. For example, sensors of various types can be employed to detect the paths of playing pieces directed by the player, detect when playing pieces have been dispensed, detect when a game is over, detect cheating actions by the player, etc. Also, input devices such as buttons, switches, etc. allow the player of the game to make various selections concerning game play. For example, a player could select a one- or two-player game, a preferred award type, a progressive option, etc. using additional controls on a front panel of the game unit 10.

Game output devices 18 may influence the game and/or provide feedback to the player about the current state of the game process. For example, motors or solenoids can influence mechanical components of the game in response to player commands, such as tilting a playing surface, dispensing a playing piece, spinning a wheel, etc. Feedback is

- 30 perceived by the player preferably in the form of visual, auditory, and/or tactile feedback. A video display screen can provide visual feedback such as images to the player during the game process. Other visual output devices can include one or more score displays, lamps or other light sources positioned on or surrounding a "game space" (e.g., a play field or area of game action). Game output devices such as speakers, buzzers, alarms,
- 35 and other devices provide auditory feedback such as sound effects during a game process, synthesized or recorded speech, etc. Game output devices such as motors, solenoids, or

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other actuators can provide forces on the game apparatus or on controls handled by the player to provide tactile feedback in the form of vibration, jolts, etc. One or more of the game output devices can also be used to display information related to specific prizes that can be won by the player when using the game unit 10, as described below. Game output devices 18 can also include a coin return slot for returning coins or tokens or providing other cash prizes after a game is played. Game processor 12 preferably commands such feedback to the player by sending out control signals to the various output devices in game unit 10 when appropriate.

A preferred output device is a display screen 56. Game processor 12 utilizes appropriate display drivers, graphics chips, and/or other well-known components to display and update images on the display screen for implementing a game and providing information for the redemption system of the present invention, as described below.

In a typical game process of game unit 10, a series of game states occur until a game conclusion is reached. The player can influence game states with game commands, but game states will often also change without any user input, such as when a time limit expires. The game conclusion can be triggered by a particular game state or other condition. At the game conclusion, the player's performance and/or skill in the game is preferably related back to the player using one or more output devices 20 in a form such as game score and/or prize credits. For example, the player's performance in the game can be determined by checking if the player achieved a predetermined goal or task during the game.

Universal ticket dispenser 20 can be included in game unit 10 used to dispense universal tickets or other universal vouchers to a player. The universal vouchers are used to redeem prizes available in the gaming environment. For example, tickets can be dispensed from ticket dispensing mechanisms well-known to those skilled in the art.

The universal tickets and other vouchers dispensed by dispenser 20 are referred to herein as "tickets" or "universal tickets." These types of vouchers are generic and not specific to any prize, and can be accumulated by a player and used to redeem one or more of several prizes available to the player. For example, in a standard redemption game arcade, players of games in the arcade receive all the same type of universal tickets from the various games at that arcade. The operator of the arcade provides a separate prize display booth or prize vending machine which accepts the universal tickets as currency in exchange for one or more prizes. In some embodiments, each of the tickets dispensed by dispenser 20 is equal to one prize credit accumulated by the player during a game. Some gaming environments provide universal tickets which may be exchanged for prizes only at one or more limited locations.

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The term "prize", as used herein, is intended to generically refer to any merchandise, souvenir, food item, or other physical goods or services which can be offered to players of redemption games and which have value other than as a medium of exchange for use in the gaming environment. A can of soda, slice of pizza, radio, stuffed animal, toy model, coupon for monetary value outside the gaming environment, gift certificate, cash, and free games to be played on game unit 10 are all examples of "prizes." A prize might also be a promotional coupon, which can encourage players to return to the current gaming environment or location more quickly in the future. For example, a promotional coupon can be dispensed as a specific prize ticket (see below) which offers a player a free pitcher of beer if the player returns and redeems the coupon within 1 week (or whatever free item the operator desires). Redemption tickets or specific prize tickets would not be considered a "prize" since these tickets can be used in the gaming environment (such as an arcade) to redeem other types of prizes. In arcadetype gaming environments, each prize typically has a cost or value associated with it, specified as an amount of universal redemption tickets (or prize credits). The more valuable the prize, the greater number of tickets is typically required to redeem that prize. For example, a small toy car prize might have a requirement of 20 tickets, while a large stuffed animal prize might require 1000 tickets for exchange. Since a player can view the prizes and their associated costs in universal tickets, the player can play various games in the arcade until the desired number of universal tickets have been accumulated. The use of a universal ticket allows the operator to provide a specialized "currency" which the

players must use to exchange for prizes at the arcade. Other types of objects or items can also be dispensed and used as universal vouchers, such as plastic or cardboard chips, i tokens, etc., or even coins or other currency.

The amount of universal tickets dispensed to the player is typically based upon a

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game score or other result of a game process. In addition, special or progressive goals may be achieved by the player to win an additional or specified number of universal tickets. In the preferred embodiment of the redemption system, "tickets" or "prize credits" are used as a medium of conversion from game score to prize value. Actual physical universal tickets may never be dispensed to a player if the player uses his or her ticket winnings to directly purchase a prize within the redemption system. The selection of prizes in the present invention is described in greater detail with respect to Figures 5 and 6.

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The game processor 12 can issue commands to start the dispensing of tickets, dispense a particular number of tickets, and stop dispensing tickets. The tickets are stored in a storage area, such as a receptacle behind a front panel of the game unit 10, as is well known to those skilled in the art. In other embodiments, no universal dispenser 22

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is included in game unit 10 and prizes are redeemed solely by the use of specific prize tickets (described below) or other means.

Specific prize ticket dispenser 22 is optionally included in game unit 10 to dispense special tickets, coupons, or other vouchers for specific prizes to the player of the game unit. Specific prize tickets are to be distinguished from the universal tickets described above. A "specific prize" or "instant prize", as referred to herein, is a particular prize or type of prize that a player can be directly and immediately awarded and, in most cases, can immediately receive due to a particular winning result on game unit 10. Preferably, the player redeems the specific prize by paying an appropriate specific prize ticket to an operator, vending machine, etc., that the player received from ticket dispenser 22 based on a particular winning result on the game unit. A "specific prize ticket", "specific prize coupon" or "specific prize voucher", as referred to herein, is a ticket, coupon, or other physical or electronic voucher that can be exchanged for the specific prize only, and cannot be exchanged for other types of prizes or accumulated to purchase several types of prizes. For example, paper or cardboard tickets, special metal, plastic, or cardboard coins or tokens, smart cards, etc., can be used as "specific prize tickets" and dispensed or output from specific prize ticket dispenser 22.

In the preferred embodiment, a specific prize ticket refers to an associated specific prize in some way and has a standardized format that is recognizable and verifiable by the prize supplier or operator. The specific prize ticket thus verifies that the player legitimately won a prize from a game unit 10 within an operator's control or knowledge. For example, a specific prize ticket can include on its face a text description and/or a pictorial description of the particular prize won, such as a slice of pizza or a stuffed animal. The player can turn in the specific prize ticket to a display booth, other prize area, attendant, bartender, waiter, etc. and receive the specific prize referred to on the specific prize ticket. In other embodiments, the player who won a specific prize can send in the specific prize ticket or other voucher to a prize distributor or seller and receive a prize by mail or other delivery service. In still other embodiments, the specific prize ticket can be provided in electronic form as, for example, bits or other data to be stored 30 on a storage device or medium. Alternatively, the specific prize ticket can simply designate that it is a specific prize ticket and not a universal ticket, and other operatordetermined factors can determine which particular prize can be redeemed by the specific prize ticket. Specific prizes and specific prize tickets offer a player greater excitement

and involvement in a game by allowing large prizes to be won instantly without accumulating tickets, and also provide the game operator with promotional opportunities and simple verification that players have won particular prizes. Specific prize tickets are described in greater detail in copending patent parent application 08/628,490.

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Specific prize ticket dispenser 22 is preferably a separate dispenser from universal ticket dispenser 20, although in alternative embodiments the two dispensers 20 and 22 can be implemented as a single dispenser. In a preferred embodiment, specific prize ticket dispenser 22 includes a printing device, such as a laser printer, ink printer, or thermal printer, that outputs a slip of paper including a text description and/or pictorial representation of the specific prize which can be redeemed for the ticket. This same printing device can also be used to print either universal tickets with markings/indicia or specific prize tickets with indicia specific to a specific prize that has been won by a player. Since players may try to produce counterfeit specific prize tickets/vouchers, the specific prize vouchers can be provided on specialized paper, cardboard, or other material

and/or include special identifying marks, code or password not easily reproduced. In some embodiments, the specific prize ticket dispenser can print a value or description on the specific prize ticket in standardized bar code format which can be read by standard bar code readers. For example, a specific prize ticket awarding \$1.00 off the price of a product can be printed with the appropriate bar code and thus can be accepted by any retail establishment able to read bar codes on products. The specific prize ticket dispenser 22 is controlled by game processor 12 similarly to dispenser 20 described above.

In alternate embodiments, no universal ticket dispenser 20 is included in game unit 10 so that only specific prize tickets can be dispensed and exchanged for prizes. This embodiment offers the operator the advantage in that a whole price structure for prizes need not be maintained in a prize booth or other display area. These features reduce the operating and maintenance costs of implementing a redemption system. Alternatively, the specific prize ticket dispenser 22 can be used in place of universal tickets and the universal dispenser by dispensing a single ticket "receipt" that has a universal ticket value printed on it. Players can thus save receipts indicating how many tickets they have accumulated rather than saving large numbers of universal tickets.

In still other embodiments, game unit 10 does not include a specific prize ticket dispenser 22. Specific prizes can still be won by a player using the game unit 10, but the prizes are claimed and received in some other manner than by ticket redemption. For example, when a player achieves a predetermined task on game unit 10 to win a specific prize, a message is displayed on a display screen or other output device indicating that the specific prize has been won. That message can be "frozen" or displayed until an operator or prize supplier gets a chance to see the message and personally verify that the prize has been won. The specific prize can then be given to the winning player. The operator can then reset the game to remove the prize message so that players can continue to play the game. Alternatively, the operator can have access to a central computer or game that is

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linked to game unit 10 through communication device 24 (described below), such as the computer that implements a tournament score, and remotely verify that the a specific prize has been won and reset the game apparatus from the central computer. In yet other embodiments, the dispenser 22 is provided separately from game unit 10 and is linked through communication device 24 to receive prize information through electrical connections. In this way, a small number of centralized prize dispensers 22 can service a larger number of game units 10 all linked to the central dispensers.

In other embodiments, a player can insert a card or other medium which stores electronic data into a suitable output device 18. The game unit 10 then can write electronic data on the medium indicating the specific prize that was won by the player, and/or indicating a number of tickets or prize credits which the player has won. The player can then take the card and insert the card into a suitable card reader connected to a prize selection apparatus (prize selection is described in greater detail below). The prize selection apparatus can be a game unit 10, or a separate "prize center" which can be used solely for prize selection.

Communication device or link 24 can optionally be included to allow game unit 10 to communicate with other game apparatuses or with other computing, storage, and/or processing devices, such as a progressive bonus apparatus or server, described below. For example, a separate progressive bonus apparatus can be provided which is connected to multiple game units 10 through communication devices 24. Each individual game unit 10 contributes to a collective progressive score that is stored and displayed by the bonus apparatus. The progressive score, for example, can be incremented with every coin inserted in input device 14 of any linked game unit, or automatically incremented over time at regular or random intervals, manually incremented by an operator of the 25 progressive apparatus, etc. The progressive score is accumulated from the current and previous games that have been played on the linked game units 10. The first player that achieves a predetermined progressive goal on any of the linked game apparatuses wins the progressive bonus score, where the progressive score is added to that player's game score and thus allows that player to win a greater number of universal tickets and/or 30 specific prize tickets that may be associated with the progressive score. Alternatively, an individual progressive score can be accumulated on a single, individual game apparatus 10 and displayed on a progressive score display separate from a game score display. For example, the individual progressive score can be incremented by a predetermined amount each time a player inserts a coin in a coin slot. Progressive goals, scores, and bonus 35 apparatuses are described in greater detail in U.S. Patent 5,292,127, by Kelly et al., and co-pending patent application serial no 08/374,490, by Kelly et al, both of which are

hereby incorporated by reference herein in their entirety.

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Communication device 24 can also be used to communicate directly or indirectly with other game units 10 and other processing devices to allow multiple players to participate in a game process. For example, one game unit 10 can allow a player to control one player-controlled object in a video game, while a different game apparatus linked through communication device 24 can allow a different player to control his or her own object in the same video game. Such linked apparatuses can also be used in quiztype games, for example, in which players simultaneously or successively compete to hit a button to answer a question, score points, etc.

Communication device 24 can also be used to allow game unit 10 to communicate 10 with an operator, server, or other central controller that regulates and coordinates prize distribution to game apparatuses linked to the controller in the current redemption system. For example, an operator in a game arcade can input a desired prize that will be associated with a specific prize ticket. This input information is communicated to the linked game apparatuses, allowing those linked game apparatuses to dispense a specific prize ticket that displays the prize that the operator entered. Similarly, the linked game apparatuses can communicate information to a tournament server, for example, that assists the operator or the server in operating the games or tournaments. For example, a linked game unit can inform the operator or server when specific prizes are won and the type of prize won, how many specific prize tickets have been dispensed over a predefined time period, how many universal tickets have been dispensed, how many progressive bonus awards have been won, etc.

Communication device 24 can be implemented as any one of many devices well known to those skilled in the art. For example, device 24 can be a network interface card coupled to a main bus of the system, a telephone modem, a cable modem, a direct network connection, or other device for communicating information according to standard network or modem protocols. Alternatively, device 24 can be a wireless transmitter/receiver for communicating without the use of cables or wires, e.g., using infrared emitters and detectors, broadband RF communication, etc.

FIGURE 1a is a block diagram of a preferred game processor 12 of Figure 1. 30 Game processor 12 receives signals and commands from the player input devices 16 and translates/interprets those signals and commands so that the game process can be updated. Game processor 12 preferably includes a microprocessor 28, random access memory (RAM) 30, read-only memory (ROM) 32, and input/output (I/O) 34. Microprocessor 28 can be any processor or controller with features sufficient to control 35 the game apparatus. For example, a suitable microprocessor for many mechanical game applications is the Intel 8031 8-bit microprocessor, which includes eight data lines and

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sixteen address lines. Alternatively, more powerful microprocessors, such as Pentium-

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class/Power PC class microprocessors, or specialized graphical or digital signal processors, can be used. Microprocessor 28 executes a process, described by software instructions stored in memory, which recognizes a game command from player input devices 16. The software instructions can be stored in a "computer readable medium", which, by way of example, includes memory such as RAM and ROM, magnetic disks, magnetic tape, optically readable media such as CD ROMs, semiconductor memory such as memory chips or PCMCIA cards, etc. In each case, the medium may take the form of a portable item such as a small disk, diskette, cassette, memory module, etc., or it may take the form of a relatively larger or immobile item such as a hard disk drive.

Microprocessor 28 is coupled to RAM 30 by a data (D)/address (A)/control (C) bus 36 to permit the use of RAM for scratch-pad memory and other functions during a game process. ROM 32 is preferably an erasable, programmable read-only memory (EPROM) that contains the start-up instructions and operating system for the microprocessor 28. Much of the instructions to implement the process of Figures 5 and/or 9 can be stored in ROM 32. Methods for coupling RAM 30 and ROM 32 to the microprocessor 28 by bus 36 including data, address, and control lines are well-known to those skilled in the art.

I/O 34 includes buffers, drivers, ports, registers, and other analog and/or digital circuitry to interface inputs and outputs with the bus 36. Game output devices 18 and input devices 16 can be coupled to I/O 34. For example, a display screen can be coupled to I/O 34 so that the microprocessor or another video processor can control the display of images on the display screen, as is well known to those skilled in the art.

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Game processor 12 can be implemented as part of a control system including other electronic components (not shown). Besides the components of game processor 12, the control system can include operator-configurable controls to provide selectable game functions such as the amount the score is incremented for certain player actions or commands, the amount of prize credits awarded based on the score, the speed and/or difficulty of game play, the conditions required to add to the game score and/or receive universal or specific prize tickets, the conditions required for a player to win a progressive bonus award or enter a tournament, etc. These factors can affect the difficulty of the game and the amount of tickets/vouchers received by players. Other functions selectable by such controls can include sound effects, a test mode, the type of game, and so on. The game processor can also include other components, such as a sound chip, audio amplifier, and speaker.

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The game processor 12 can also be implemented within a standard personal computer, workstation, network computer, or similar device. The computer can include

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plug-in interface cards such as video cards, 3-D graphics cards, sound cards, controller cards, etc. Standard peripherals can be coupled to the I/O 34 as input devices 16 and output devices 18, such as a CD-ROM drive, storage device (floppy disk drive, hard disk drive, etc.), PCMCIA card, printer, stylus and tablet, microphone for voice recognition, camera, or communication device 24.

FIGURE 2 is a perspective view of one embodiment 50 of game unit 10 which can include the features of the present invention to implement games and a redemption system. Game unit 50 is a multi-function game station or game console which is intended to implement multiple types of games using one apparatus, as described below. Game station 50 includes a housing 52, player controls 54, display screen 56, coin slot 58, speaker 59, and specific prize ticket dispenser 22 (a universal ticket dispenser 20 can also be included in other embodiments).

Housing 52 encloses and supports the components of the game unit 50. Player controls 54 allow a player to provide player input as described with reference to Figure 1. The player controls preferably include a number of buttons 60 and a track ball 62. Buttons 60 can be used by a player to input selections or actions offered during games. For example, during a poker-style game showing a hand of cards, each button 60 can be associated with a particular card and the player can hold or discard a card by pressing or not pressing the associated button. Track ball 62 allows a variety of control options in several types of games. For example, the track ball allows a player to easily select certain areas displayed on display screen 56 with a player-controlled cursor. Alternatively, many other types of player controls can be used. For example, display screen 56 can be provided as a touch screen for reading the positions of objects that contact the screen. This allows players to select objects displayed on the touch screen by pressing a finger directly on the screen at the positions of the displayed objects, as is well known to those

skilled in the art. Images can be displayed and updated on display screen 56 by game processor 12 or other controllers by methods well known to those skilled in the art. Coin slot 58 is provided for the player to insert one or more coins before starting a game and can be 30 implemented as described above. Other monetary input devices, such as card readers, can be provided in other embodiments. Specific prize ticket dispenser 22 is implemented as described above. Depending on the location of the game unit 10, a universal-ticket dispenser 20 may or may not be included. In standard redemption game environments, the dispenser 20 can be provided as described above. In some non-standard gaming environments, such as bars, restaurants, stores, etc., it may be more appropriate to have only a specific prize ticket dispenser in game unit 10 since a prize display area may not be present in the non-standard gaming environments.

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Alternately, other input and output devices can also be included in game unit 50. For example, a card reading/writing device, a video scanner, a video camera, a microphone, a dollar bill acceptor, personal digital assistant interface port, or other devices can be provided to allow a player to input data from various sources and to allow the game unit to output prize information in a variety of forms.

Multi-use game unit 50 can be used in a variety of gaming environments. For example, game unit 50 is small enough to be easily located, thus allowing the game unit to be provided as a "bar top" game in a bar, restaurant, or similar environments and locales. The redemption system of the present invention can thus be used in these nontraditional environments, where redemption games have not been used previously. Game unit 50 can also be used in environments such as a gaming arcade. Also, environments such as casinos can use game unit 50 as shown in Figure 2 or in modified form.

The bar top game 50 can offer one of several different types of video games utilizing images displayed on display screen 56. Some examples of games are described in greater detail below. Players can select buttons 60 to pick cards in a hand or displayed cards, for example. Likewise, trivia or quiz-type games are popular in bar type environments, where trivia from a range of subjects can be posed as questions for players and where players can select specific buttons 60 which correspond to displayed multiple choice answers; or players might speak an answer in a microphone if game apparatus includes a speech recognition device. In addition, video games which allow high player involvement can be implemented on game unit 50. Memory games, timed games, knowledge games, and sports games such as basketball, golf, and the like can be provided, as well as other types of video games.

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In one embodiment, game processor 14 can include a well-known microprocessor such as a Pentium-based microprocessor, as well as additional components necessary to implement popular computer platforms. Software that can be implemented on the Pentium microprocessor can thus be provided on multi-use game unit 50. This allows a wide variety of available games to be provided on game unit 50. Preferably, the player can select one of several offered games to play using player controls 54; the monetary amount required to play a certain game can vary depending on the type of game selected.

Multi-use game unit 50 is also ideally suited for linked or networked game play utilizing a communication device 24 as described with reference to Figure 1 to create a multi-apparatus game system. A single game unit 50 can be linked with one or more other game units 50 to allow multiplayer games, as described in greater detail below. For example, game unit 50 can include a "network computer" which typically includes lower cost components than stand-alone PC's and which can utilize processors and software

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over a network to do many of computing tasks for the user of the computer. When provided as a network computer, game unit 50 can be initially provided as a stand-alone device which is not networked, and then eventually can be easily upgraded to intra-site and inter-site gaming systems, as decribed with reference to Figure 3.

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In addition, universal tickets can be won and dispensed from game unit 50 similarly to the embodiments described above. A prize selection menu, as described below with reference to Figure 6, is also well suited for game unit 50 since the player can easily select a desired prize from available lists or menus displayed on screen 56 using track ball 62.

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FIGURE 3 is a block diagram showing an embodiment 100 of the present invention for implementing networked game units with the redemption system of the present invention. Individual game units 10a and 10b are described above with reference to Figure 1, and may take the form of game unit 50 of Figure 2 in appropriate embodiments. Each game unit 10a and 10b accepts monetary input 104, such as coins, tokens, a debit card, a credit card, smart card, or other forms of monetary or validated input. Each game unit 10a and 10b allows a player to participate in a game of skill implemented on the game unit after the monetary input is received. Each game unit 10a and 10b is also preferably capable of dispensing an award 106 to a player in accordance with his or her performance in the game. This performance is typically indicated by a game score. Such award can be a specific prize ticket or coupon, universal tickets, smart card electronic data, etc. Alternatively, awards can be provided in other ways as described herein.

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Each game unit 10a and 10b may be coupled to a server 108 by a bus 110. The server 108 can be a separate device or apparatus which includes a controller such as a microprocessor and/or a storage device such as a hard disk drive, memory devices, etc. Server 108 can include a microprocessor similar to game unit 10 described above, and may also include input and output devices. For example, the server can be one or more personal computers, "workstations", mainframe computers, or other types of computer or processor. The game units can be electrically coupled by cables or wires and otherwise be physically separated from the server, or the game units can be physically coupled to the server. The game units can include appropriate network software to implement required communication protocols, as is well known to those skilled in the art.

Alternatively, the server 108 can be provided in one of the game units 10, or a server can be included in each game unit 10 and linked to each other by busses 110.
 Additional game units 10 can also be coupled to the server similarly to game units 10a

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and 10b. Game units 10a and 10b can alternatively be directly coupled to each other without the use of a server 108.

In addition, one or more separate prize selection units 11 can also be coupled to server 108 and/or to game units 10a and 10b in the game system 100. Unit 11 allows a 5 player to select a prize in the redemption system using prize credits won from playing a game in the redemption system. Unit 11 can be an apparatus similar to game unit 10 or 50 except that it need not offer any games for players to play. The prize selection unit 11 can receive a player's prize credit information from server 108 or a game unit 10a or 10b and display a prize selection menu on a display screen as described with reference to 10 Figure 6. The player can select one or more prizes using input controls of the prize selection unit, such as a track ball, mouse, buttons, keyboard, etc. The prize selection unit can then dispense a specific prize ticket, order a prize from a prize distributor, dispense a prize from its own storage area, etc. Alternatively, the unit 11 can include a reading apparatus that accepts a storage medium from a player, such as a smart card. The unit can thus read a player's prize credits from the storage medium and allow a player to select a prize.

In one embodiment of Figure 3, the game units 10a and 10b and server 108 are an "intra-site" gaming system, i.e., the units and server are provided at a single location or gaming environment. For example, a local area network (LAN) can be implemented at the particular site to link only those game units at that site, and where the server 108 is a central computer or game apparatus that stores central data and coordinates prize infomation, networked game processes and/or tournaments. Or, existing phone lines or other network lines can be used to connect to a dedicated server that is used only to implement the games and tournaments at the single site. For example, a server 108 can be accessed by game units 10a and 10b using a modem and phone lines or TV cable lines, but the server 108 need not be connected to a large scale network (such as the Internet). Also, the game units and server can be networked at a single site using an "Intranet" that utilizes the same well-known protocols of the Internet, which is discussed in greater detail below. This allows Intranets to use same or similar server machine software and

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client machine software as are used in Internet applications.

Server 108 is used to coordinate games among one or more individual game units and/or provide information to linked game units. For example, the server can be used to control a networked game, where players on separate game units are simultaneously competing. For instance, a first player playing a first person point-of-view virtual reality video game on one game unit 10a can interact in "real time" with a second player of a second game unit 10b who is also playing the same game. The first player can view a computer-generated object that is controlled by the second player, and vice-versa.

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Alternatively, "non-real-time" games with players taking turns can be provided. The implementation of such networked games is well known to those skilled in the art. Many players can be included in such a networked game, from 2 to hundreds or even thousands of players. Players can simultaneously compete to first achieve a goal or a predetermined task in the game that will win them a specific prize ticket or universal tickets from dispensers 20 or 22. Server 108 can also be used to store a variety of games in electronic form and to download a game to a game unit 10a or 10b when that game is selected by a player of the game unit. The game would then typically be executed locally to the game unit 10a or 10b by game processor 12. Alternatively, if the network transmits data quickly enough, the server 108 can execute a game and send and receive appropriate data between the server and game units.

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Alternatively, game system 100 can be provided as an "inter-site" system, where one gaming environment or "site" can be linked to game units 10 at other gaming environments or sites (such as a bar down to the street, or a bar across the world) to allow additional numbers of players to interact and/or compete in networked games, tournaments, etc. Thus, for example, server 108 with game units 10a and 10b at one site can be linked to a different server 108 and game units at another site. For example, game units 10 or 50 at different sites can be conveniently linked through a private wide area network (WAN) or an existing global network such as the Internet and/or the World Wide Web (described below), where the communication between different game apparatuses is accomplished using telephone lines, ISDN lines, direct-connect data lines, fiber optic lines, cellular phone or pager wireless receiver/transmitter devices, and/or other types of communication devices and channels. The network can be a standardized network, such as Ethernet, and the game apparatuses can communicate using well known network protocols, such as TCP/IP, IPX, or other standards. Each site may include its own server 108 which is linked to servers 108 at other sites. Also, each server may be linked to one or more centralized servers at "central sites" which can coordinate information, rules, etc. between sites. Alternatively, each site may include only game units that are connected to one or more centralized servers located external to the game environments at different sites.

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For example, a server 108 can be provided at each site and additional sites where games are desired to participate in the present prize redemption system, networked game, or tournament. Each server can send periodic update signals to other linked servers so that each server has the most current information regarding prizes, the state of a game, the number of participants in a tournament, the current tournament score, or other related information.

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Game units 10a and 10b can likewise be linked to other types of computing and electrical devices through communication devices 24. Centralized servers 108 can monitor and coordinate games for several game units. A network connection to an existing large scale network allows the game units 10 to be additionally used as terminals for players or other members of the public to access information over the network. For example, track ball 62 of game unit 50 can conveniently be used by a player to move a cursor displayed on screen 54 to select different links to the World Wide Web, to either play a game or access information-related services.

The networked game units 10a and 10b and server 108 can be used to implement a centralized prize distribution system in the redemption system of the present invention. A list of available prizes and their prize costs can be stored on a server 108 or a centralized server 108 as described above, and this information accessed by game units 10a and 10b when needed. A prize selection menu can be retrieved by game units in the redemption system, as described in greater detail below.

The game system 100 can also be used to provide networked games between players of different game units 10 such as the real-time and non-real time games described above. In one embodiment, a new player might approach a particular game unit 10 and view a list of players displayed by game processor 12 which are currently playing games on game apparatuses that are linked to the particular game apparatus. The new player can select a game in that list to join that networked game or start up a new networked game of his own and wait for additional players to join.

Game system 100 is also well suited to implement tournament games. In one embodiment, a tournament can be implemented on a single game unit 10, where players successively play games on the single game unit 10, and where each player's score or performance is stored, for example, in memory such as RAM 30 or on a different storage device coupled to the single game unit. Servers 108 are also well-suited for tournament game embodiments. The single game unit 10 can be coupled to a separate tournament server 108, or the tournament server can be physically included within the game unit 10.

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In another embodiment, linked or networked game units 10a and 10b provide a much larger base of participants in a tournament. A player may participate in the tournament from any game unit 10a or 10b that is connected to other game units in the tournament. Game units 10a and 10b in a tournament can be provided at and linked together at one site as described above, and can also be linked to server 108. Similarly, other game units at different sites can also linked together and/or to a server 108. Server

35 108 may coordinate prizes between game units, or determine a tournament prize 112 at the conclusion of a tournament, similar to the embodiment 100 described above.

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The tournament is over after predetermined conditions have occurred, which is described in greater detail below with respect to Figure 7. A tournament prize 112 is provided to winning players of the tournament who are determined according to predetermined rules or methods as described with respect to Figure 8. The tournament prize can be cash, physical prizes, tickets or other vouchers (such as specific prize tickets), or other types of awards. The tournament prize can be dispensed to the player through an award-dispensing device of an individual game unit 10, or provided to the player externally. For example, an operator of the game tournament can manually provide the tournament award to the winning players. Alternatively, a player may be remotely awarded the tournament prize from a prize distributor, e.g., the player can be sent prizes through the mail or delivery service, a player's bank account can be credited, etc.

FIGURE 4 shows a second embodiment 100' of networked game system 100. System 100' includes a wide area network (WAN) such as the Internet 130, and a number of game units 10 coupled to the Internet 130. For example, a first game unit 10a, a second game unit 10b, and a server 108, are coupled to the Internet 130. Multiple servers 108 can also be provided with access to Internet 130 which are accessible by other computers and components connected to the Internet.

The Internet 130 includes a number of nodes 132 that are interconnected by data transmission media 134. These nodes are typically routers, switches, and other intelligent data transmission apparatus which route "packets" of TCP/IP information to the desired destination. In some instances, the nodes 132 can comprise an Internet service provider (ISP) 136 which allows a client machine to access the "backbone" of the Internet. Alternatively, client machines and web servers can be coupled directly into the backbone of the Internet. The nodes 132 are most commonly routers built, for example, by Cisco Systems of San Jose, California. The Internet service providers 136 are typically computers such as workstations.

Game units 10a and 10b can be coupled to the Internet 130 with a suitable communication device, such as a network interface, telephone modem, cable modem, etc. 30 The game units 10a and 10b can be considered, in the language of the Internet, to be "resources," and game unit can include its own unique Uniform Resource Locator or "URL." In one embodiment of the present invention, a client machine, such as game unit 10a or 10b, sends a request for information, such as current prize costs, tournament score etc., residing on, for example, server 108. In some embodiments, the information on a server 108 or game unit 10 can be publicly available to anyone with Internet and World Wide Web access; for example, the current tournament standings or prizes provided by a game provider or operator can be posted on a "web page" on the world wide web. A

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game unit or other requesting machine can send a connection request and a URL which specifies the address of the web page to the server 108. The server 108 then sends a web page written in, for example, HTML format back to the requesting game unit or client machine, where it is "cached" in the memory (typically the RAM, hard disk, or a combination of the two) of the game unit or client machine. In this embodiment of the invention, the image on a video display of the game unit or client machine. For example, a client machine can use a web browser such as Netscape from Netscape Communications or Internet Explorer from Microsoft Corp.

A game unit 10a or 10b may also request information such as a prize selection menu, as described below with respect to Figures 6b and 6c. The prize selection menu can be implemented as a "web page" in HTML or other standard formats. The most recently-updated prizes and their prize costs would be downloaded to client game units with the web page so that players could select desired prizes using prize credits won during previous games. This embodiment is suitable for game units 10a and 10b that are situated in public places as well as non-public places such as the homes of players. In addition, game unit 10c can be coupled to Internet 130 similarly to game units 10a and 10b. Game unit 10c can be coupled to another game unit 10d by a LAN or other communication network.

In other embodiments, other well-known Internet protocols or languages can be implemented on servers 108, game units 10 and client machines. For example, information can be sent in Java from Sun Microsystems, ActiveX from Microsoft, and/or the Virtual Reality Modeling Language (VRML) in addition to HTML.

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Using Internet 130 or a similar WAN, players at home can participate and interact in network games, prize redemption systems, and tournaments with players that are playing a game unit at a particular gaming environment such as a bar or arcade. In another aspect, a first game unit, such as game unit 10a, and a second game unit, such as game unit 10b, may directly communicate with each other in standard TCP/IP protocol over the Internet 130. More particularly, game unit 10a can send information to the URL of the game unit 10b, and the game unit 10b can send information in standard TCP/IP packets to the URL of the game unit 10a. In this way, players of game unit 10a and game unit 10b can directly interact in games over the Internet 130. Of course, a server 108 can likewise directly communicate information to a game unit 10a or 10b, or both units and the server can all interact.

FIGURE 5 is a flow diagram illustrating a preferred process 250 of the present invention for implementing a redemption system of the present invention on one or more

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individual game units 10 in the process of playing a game. The present process is also suitable for the embodiments of the game system 10 described with reference to Figures 3 and 4, and can also be applied to other embodiments as desired. Process 250 can be implemented by game processor 12 or other processors coupled to the game unit.

The process begins at 252, and, in a step 254, the process checks whether monetary input has been detected, such a coin(s), token, credit card, debit card, etc. Game processor 12 preferably stores monetary input in various categories so the operator can determine the amount of money earned by different games in particular time periods, and whether tournaments or single games earned more money. If no monetary input is detected, the process continues to check for monetary input. Once monetary input is detected in step 254, the process continues to step 256, where a game and/or information selection from the player is received and the appropriate selected game is selected from memory by the game unit 10. For example, in one preferred embodiment, the game console 50 as shown in Figure 2 offers several types of games that can all be played on the same console 50. In other embodiments, only one type of game is offered per game unit. Information can also be selected about the offered games, prizes, events, etc.

One example of a display shell 270 on display screen 56 of the game console is shown in FIGURE 5a. A number of options and displays are provided for a player, including game selections 272, a main display window 274, and other information options 276. A player can select a game by pressing a touch-sensitive screen at the location of the game buttons 272, or by moving a pointer over a game selection with track ball 62 or other control and pressing a button 60, for example, to select the desired game. Available games of the described embodiment include arcade action type games, in which a player's dexterity may influence the outcome of the game and thus may influence the game score; card games, in which cards can be provided randomly and a player can select and arrange cards according to game strategies; and quiz games, in which a player is typically provided questions to answer. Combinations of these types of games and a variety of other types of games can also be provided. Other available games can be displayed and selected using arrows 273. Visual feedback from a selected game is preferably displayed in main display window 274 and can also be displayed in other windows or areas of display screen 56. In other embodiments, electromechanical games can be provided, in which game action is implemented with moving mechanical parts or components such as directed playing pieces (balls, rings, coins, etc.), tilting surfaces, moving targets, and the like, and may or may not include a display screen 56 with a display shell 270. Such electromechanical games can include coin or ball roll down games, basketball games, rotating pointer games, etc.



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Initial display 270 also shows a number of other controls 276 which a player may similarly select to obtain information about other aspects of the redemption system. Help button 278 provides information to the player about how to win and choose prizes, how to accumulate prize credits, how to play the various offered games, etc. High scores button 280 provides the high scores of players for each type of game that has played on the displaying game console 50. Tourney leaders button 282 displays a screen of the current tournaments being provided and the current leaders in those tournaments. The tourney leaders screen is described with reference to Figure 8a. Win cash button 284 provides the player with instructions and options on how to win money playing games. Other win and prize information can be similarly provided. The collect prize button 286, when selected, provides a player with a prize, such as a specific prize ticket, universal redemption tickets, or an actual prize. A prize display screen in connection with button 286 is described in greater detail with respect to Figure 6a.

Other displays are also provided on initial display screen 270. Game credits display 288 displays how many game credits the player has left and which typically corresponds to how much monetary input the player has provided (e.g., number of coins). Each game credit is equal to a fixed monetary value, such as 25 cents. Typically, each game offered on game unit 10 requires a predetermined number of game credits to play, and this number can vary depending on the type of game played and the options selected for a game. In some embodiments, a player can store game credits and retrieve/use game credits from previous game sessions if a "game credit account" is implemented for the player, similar to the prize credit account described subsequently. Also, bonus or free game credits can be provided in a variety of circumstances, such as inserting a \$5 bill into the game unit, previously winning a game credit prize, as a promotional exercise, etc.

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Prize credits display 290 shows the number of tickets (also referred to as "prize credits" or "ticket credits" herein) that the player has won. These prize credits may have been won by the player after the most recent game or during the current game session, and/or can include prize credits stored up over previous game sessions. A "game session" is a continuous use of the game unit by the player and may include one or more games played; for public game units, the game session may end when the player leaves the game unit. For implementations on a single game unit 10, prize credits may have been won by the player during previous game sessions when playing the game unit and which the player did not exchange for a prize (i.e., the player is "saving up" prize credits). In some embodiments, the individual game unit can store these previously won 35 prize credits in a "credit account" with a player ID (name, address, ID number, etc.) In networked embodiments such as shown in Figures 3 and 4, the server 108 can store the prize credits won by a player over previous game sessions and can send this information

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to an individual game unit when requested by the game unit, e.g., when the player associated with a credit account plays a game on the game unit. Thus, a player can access his or her credit account by playing any individual game unit connected to the server that stores that player's credit account information. In multi-server embodiments, the multiple servers can communicate the credit account information to each other so that the player can access his or her prize credits from any linked game unit.

Two or more players can also play games simultaneously, alternating, etc. on a game unit 10. In such a case, each player can be provided with a separate prize credit display 290 to indicate that player's winnings (and also a separate game credits display 288, if desired). Alternatively, the multiple players can compete for a single prize credit amount shown in display 290.

Initial display 270 also includes a display window 292 which can provide the player with messages concerning prizes, options, tournament information, etc. For example, a message can scroll through the window in a right-to-left direction. Specific prizes winnable during a particular game can also be advertised or displayed in window 292. Main window 274 can also display game or prize related information, advertisements, promotions, etc. when no games are being played (or during game play, if desired).

A credit betting selector 271 allows a player to "bet" additional game credits for a game to potentially increase the number of prize credits won for a game. For example, each time the player selects selector 271, the game credits applied to a particular game can be increased by 1. Preferably, the more game credits a player applies towards a game, the greater the potential award. For example, 2 game credits applied to a game that normally only requires 1 will double the player's prize credits won for a particular game score. In other embodiments, the second applied game credit might triple, quadruple, etc., the prize credits won.

In alternate embodiments, the player may also be required to input some form of identification to access certain features of the game unit 10, such as a credit account storing previously-accumulated prize credits, a tournament, prizes to be sent to the player's address, etc. One convenient way to receive the player's identification is to require that players provide monetary input in the form of a credit card, debit card, ATM card and PIN number, smart card, etc. which includes an electronic form of identification. Alternatively, a player can enter a password or other ID using input controls 16.

Referring back to Figure 5, once the game and information selection is made by 35 the player in step 256, the process continues to step 260, where the process checks for a



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redemption-type selection from the player. In the described embodiment, the player is offered a choice as to prize options when playing a game. The player can either choose to play a prize credit game (i.e., non-tournament game), where the player receives prize credits and/or specific prizes based on the score and other outcomes of the game; or, the player can choose to participate in a tournament when playing the selected game. In the described embodiment, a tournament player does not receive any prize credits based on game score but instead competes for a tournament prize with other players in the tournament, i.e., the player's score is placed on a tournament list of scores. If the player chooses the prize credit game, the process continues to step 264 to implement the credit game. This is described in greater detail with respect to Figure 6. If the player chooses

the tournament game, the process continues to step 266, where the tournament game is implemented. The tournament game is described in greater detail with respect to Figure 7. The availability of specific prizes and tournament play on the game unit 10 tends to cause greater player interest and involvement and thus increases the game's earnings. In other embodiments, a player can win prize credits and specific prizes during a tournament game as well as a prize credit game. After step 264 or 266, the process returns to step 254.

In some embodiments, players can also be required to meet certain conditions before participating in a credit game or a tournament. For example, a player can be required to play a predetermined number of games (e.g., 5) on a game unit 10 before being allowed to participate in a tournament. A certain percentage of the money received from this predetermined number of games can be allocated to purchasing prizes for the winners or top players of the tournament. The number of times the player has played can be stored with a player identification on a storage device or in memory or at a central database accessible by game apparatus 100. Alternatively, the player must play the required number of games at one sitting before being allowed to participate in the tournament. Or, the player might be simply required to input a minimum amount of game credits (equivalent to playing a predetermined number of non-tournament games) to participate in a tournament.

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An example of a selection screen allowing the player to choose the type of redemption game is shown in FIGURE 5b. Main window 274 displays information about the selected game, which in this example is "Quiz Show." By selecting one of the buttons 304, the player can select a prize credit game or a tournament game (the 1 and 2 player buttons preferably both select credit games). Other information can also be provided, such as a jackpot amount 306. As described in U.S. Patent 5,292,127, a progressive bonus jackpot can be available to a player who achieves a progressive goal during a game. The jackpot amount 306 informs the player how many prize credits





would be won as a progressive bonus award when a progressive goal is achieved during the game. The progressive bonus award was contributed to by previous players of game unit 10 and/or other linked game units. In some embodiments, the player can choose an option whether to play a game having a progressive bonus award available, or play a game not having a progressive award. The information displayed on main window 274 about a game, such as shown in Figure 5b, can also be provided when the player selects the help button 278.

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Between or during games, game units 10 such as game console 50 can display other information, such as promotions or advertisements. Such advertisements can include still shots, animation, movies, sound, etc. For example, FIGURE 5c shows a promotion for the bar advertising a particular furture event at the bar to promote further interest from players. Other similar promotions can include, for example, a "happy hour" when products are free or reduced in price, a sporting event such as a football game, etc. Preferably, the game unit 10 provides a simple interface to allow the operator to easily input promotional information.

Advertisements sponsored by companies, prize providers, or other sources can also be displayed and, in another aspect of the present invention, can be directly related to prize or game information. For example, FIGURE 5d shows a beer advertisement for a particular sponsor. This sponsor may have contributed to prizes available to players on the advertising game unit 10, so that the advertisement has a direct relation to prizes and can thus increase the effectiveness of such advertising. For example, windows 274 and/or 292 can display promotions such as "Win 25% off a six pack of beer!" which might be won as a specific prize during a game on game unit 10. A dispensed specific prize ticket can include a bar code which the player can exchange as a coupon in a store 25 to receive the stated discount on that particular brand of beer. A sponsor might also supply free games for players in exchange for displaying advertisements, or may simply pay the game operator for advertising time. Thus, using the linked advertising and prize redemption system disclosed herein, multiple revenue streams from advertisers are offered to a game operator and also offer the sponsors more effective advertising.

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FIGURE 6 is a flow diagram illustrating the prize credit (non-tournament) game implementation of step 264 of Figure 5. The process begins at a step 320, and in step 322, a game process is implemented. Once the player selects a start control, the game begins and proceeds according to a standard game process as modified by player input. For example, in a "Scud Attack" game, oncoming missiles are displayed on display screen 56 which the player attempts to destroy using track ball 62 and buttons 60, as is well known to those skilled in the art. In a solitaire game, cards are displayed on the display screen 56 and the player selects cards to place over other cards according to the

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rules of the game. In a quiz game, the player answers displayed questions using buttons 60 or other input controls. Many other types of games can also be provided as game unit 10 for use with the redemption system, such as mechanical roll down games, target games, etc. In step 324, the process checks if the game is over; if not, the game process is continued in step 322.

Once the game is over, the process checks in step 326 whether the player has won a specific prize (the process can also check for specific prize winnings during the game). If no specific prizes have been won, the process continues to step 328 to credit tickets (or prize credits) to the player or to the player's account, if such is implemented. The amount of prize credits already in the player's account were accumulated during previous games played by the player. The prize credits won from the current game are added to any existing credit balance and the total is displayed to the player. As described above, the credit account can be implemented on storage devices such as memory, hard disk, etc. either local to the individual game unit or on a connected server that links multiple game units. In some embodiments, a connected server 108 can be used only for credit account functionality, or it may also be a tournament server having tournament functionality. In the examples of Figures 5a and 5b, the total prize credits available to the player is displayed in window 290. In other embodiments, the player only accumulates prize credits during a single play session that continues as long as the player has additional credits to play (e.g., the player can insert additional monetary input during or between games to continue accumulating prize credits during a single play session).

FIGURE 6a illustrates an example display of score and prize credits (shows as "tickets") won by a player after a game is over. The score 344 of the game is displayed, followed by an optional speed bonus 345, which provides a modification to game score 25 based on the time taken to play the game. For example, in some types of games, the shorter the time taken to complete a goal, the greater is the skill of the player. A score of higher value is awarded to reflect this necessary higher skill. In the described embodiment, a multiplier is applied to the score to achieve a total score 346. The total score is converted to a number of prize credits or tickets 347 that the player won; for 30 example, a predetermined number can be divided into the total score to achieve a number of tickets that is about equivalent to the player's score in terms of prize value in the scale of prizes offered by the redemption system. The number of game credits played 348 is the amount of monetary input provided by the player to play a single game; in the described embodiment, the number of game credits inserted for a game acts as a 35 multiplier for the tickets won from that game. Thus, the total number of tickets 349 is the number of game credits 348 multiplied by the won tickets 347. The total number of tickets 349-can be added to any preexisting ticket balance of the player, if appropriate. In



alternate embodiments, there need not be a conversion of score points to prize credits; a game can simply have a game score in terms of prize credits or tickets.

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In next step 330, the process checks whether the player wishes to choose a prize with his or her prize credits. If not, the player can simply end his or her game, with the newly-won prize credits added to his or her credit account that is stored on the game unit or a server (if applicable). Alternatively, the player can be dispensed a record, medium, or physical token in step 332 which allows them to retain their winnings externally to the game unit and redemption system. For example, as in traditional redemption game arcades, the player can be dispensed a number of paper tickets proportional to the game score and/or proportional to the total prize credits won. Alternatively, the player can be dispensed a printed form, receipt or stub by a printer which indicates the amount of prize credits won. In yet other embodiments, the player can insert some form of electronic, optical or magnetic storage medium, such as a debit card, magnetic disk, etc., into an appropriate reading device on the game unit. The amount of prize credits can then be written on the storage medium by the game unit and the player would retrieve the medium. Once the player received a record of their prize credit winnings, the game unit would no longer have any record of those winnings. These latter methods may be the only way for a player to save up prize credits in embodiments that do not provide a stored credit account for each player. The process is then complete at 342.

20 If, in step 330, the player wishes to choose one or more prizes with his or her prize credits, then the process continues to step 334, where a prize selection screen is displayed. This screen provides a list of prizes that are available to players within the redemption system of the present invention. The prizes are defined and organized completely within the system of the game unit so that the operator does not have to 25 display physical prizes to players in the gaming environment in a separate booth or dispenser. In gaming systems that incorporate both game units 10 and servers 108, the prizes are organized within the system of game units and any connected servers. After the player has won prize credits, the player can conveniently select one or more prizes from a list presented on the screen, where all the information necessary is provided to the 30 player. Thus, all redemption of prize credits for prizes is performed electronically. This allows an operator to have much greater influence and control over the prizes that are available and the desired profitability of the redemption games. For example, the redemption system of the present invention allows players to select their prizes on the same game apparatus which the player played the game, and thus allows the system to 35 automatically and continuously update prize costs and specific prize win ratios according to monitored player performance to maintain a desired profitability of the game units.

PATENT LAZIP026 Page 132 of 171 The prize system is described from the system's and operator's point of view with respect to Figure 9.

The prize selection menu is preferably displayed on the display screen of the game unit 10 or 50, but may also be displayed on output devices of other apparatuses, such as prize selection unit 11, server 108, client machines to the Internet, etc. When game unit 10 is a electromechanical game or other game typically not including a display screen, then a player will typically be required to select prizes from a separate unit 11 or similar device.

In step 336, the player inputs a selection of one or more prizes from the displayed list. Preferably, the player can select a desired prize using a touch screen, track ball 62, pointer, or other input device. Once the prize selection is received, step 340 is implemented, in which a specific prize ticket is printed and provided to the player. The specific prize ticket preferably includes a depiction of the prize or prizes selected by the player. Multiple prizes can be depicted on a single specific prize ticket, or a separate specific prize ticket can be dispensed for each prize selected. Thus, in effect, the prize selected by the player through prize credits can be considered a specific prize or "instant prize" at this point in the process. Specific prizes are described in greater detail with reference to co-pending parent application Serial No. 08/628,490. The specific prize ticket may be redeemed at an appropriate exchange center for the actual prize. For example, a prize exchange booth can be provided at a gaming environment such as an arcade or bar, where an operator keeps an inventory of prizes and exchanges appropriate prizes for specific prize tickets. In other embodiments, the player can insert a card having the specific prize ticket information into a vending machine. In still other embodiments, the player can mail the specific prize ticket to a prize distributor.

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Alternatively, the prize information describing which prize the player has selected is not printed on a specific prize ticket but is instead electronically routed to a distributor or to a dispenser directly over a network or other communication link. For example, in some embodiments, prizes can be delivered to a player from a central prize location, such as a warehouse. The selected prize information could thus be sent out via a network from the game unit to eventually be accessed by the prize distributors, who would send the desired prize to the player's address or would send the prize to the location where the player played the individual game unit so that the player could pick up the prize. Alternatively, the specific prize information can be written in electronic form to a medium such as a card, disk, etc., where the player can remove the medium and claim prizes at a different apparatus able to read the medium.

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If the player has won a specific prize or "instant prize" in step 326, then the process continues to step 338, where the specific prize won is determined and displayed. Specific prizes can be provided in a variety of different ways. Specific prize goals during a game can be offered to allow the player to win a specific prize (rather than prize credits) by achieving a goal requiring skill (dexterity, experience, etc.) of the player, such as moving a controlled object to a specific target, choosing a particular combination of cards, etc. Alternatively, a specific prize goal can be met based partially or wholly on random or statistical chance. The specific prizes that can be won during a game are preferably displayed to the player so that the player knows how to win the specific prizes.

Also, once the player has achieved a specific prize goal, the actual specific prize won can be determined in predetermined fashion or randomly from a prize table or other list of multiple possible specific prizes. The determination of a specific prize from a table is described in greater detail with respect to Figures 9 and 9a. Specific prizes and winning specific prizes are described in greater detail in co-pending parent patent application 08/628,490.

After or as the won specific prize is displayed in step 338, a specific prize ticket is dispensed to the player in step 340, as described above. The specific prize ticket includes a designation, such as a written description and/or picture of the prize won, so that the player may redeem the specific prize ticket for the desired prize. The process is thenework as a written description and/or picture of the prize work as the player may redeem the specific prize ticket for the desired prize. The process is thenework as a written description and/or picture of the prize work as the player may redeem the specific prize ticket for the desired prize. The process is thenework as a written description and/or picture of the prize work as a written description and/or pic

It should be noted that a player may win both a specific prize ticket and may also win prize credits during a game of Figure 6. For example, the player can achieve a specific prize goal during a game and win the specific prize, as well as scoring points and adding to game score to win prize credits. Thus, after (or during) a game, the player can receive a specific prize in steps 338 and 340, and also choose a prize in steps 334 and 336 based on prize credits won.

In alternate embodiments, actual prizes can be dispensed from the game unit 10 or from a dispensing apparatus that is located in the gaming environment. If available prizes are all small toys, cards, or the like, then the prizes can be stored in the dispenser and an appropriate prize corresponding to the player's selection can be dispensed.

FIGURE 6b illustrates an example of a prize selection menu used in step 334 of Figure 6. Main display window 274 provides a list 344 of prizes and also includes a prize cost or value 347 for each displayed prize. Additional prizes that may not fit within the dimensions of the display screen 56 can be viewed by selecting page controls 345. In the described embodiment, a prize is identified by a text name/description in a table format.

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In other embodiments, other text information related to the prize can also be provided, as well as pictorial descriptions of prizes, as shown in Figure 6c.

A player can select any of the prizes for which he or she has enough prize credits as shown by window 346. Preferably, indicators 343 are provided to indicate which 5 prizes can be "purchased" by the player with his or her current prize credit balance. Indicators 343 can take a wide variety of forms in alternate embodiments. A player selects a prize item using an input device, after which the selected prize is highlighted or marked to distinguish it from the other prizes in the list, as shown by highlighted prize 348 and check box 349. The player indicates to the game unit that a selection is finalized by selecting the collect prize button 286.

In the preferred embodiment, the entire list of available prizes is displayed regardless of whether the player can afford the prizes with his or her current prize credits. This allows the player to view the whole range of prizes and decide whether to redeem a prize at the present time or to save prize credits and, after playing additional games, redeeming a prize of greater worth with a greater number of prize credits. In another embodiment, only prizes which the player can afford with his or her current prize credit balance are displayed by the game unit.

In other embodiments, a hierarchical prize menu system is implemented, in which categories of prizes are initially displayed and allow a player to select categories and subcategories within the categories to narrow the choice of available prizes. For example, a player might select a "sporting goods" category to have a choice of sports prizes such as basketballs or other balls, athletic shoes, sporting goods equipment, etc., and then select a sub-category of "baseball" to narrow the choices to baseball-related prizes. This is useful when a large number of prizes are offered by the redemption system.

In response to the selection of a prize by the player, the game processor 12 in a preferred embodiment commands the dispenser 22 to print out a specific prize ticket 62 that may be exchanged for the selected prize (and, preferably, no other prize). Thus, by allowing a player to select prizes using the game unit 50, no physical universal tickets 60 need be dispensed to the player. The only physical ticket needed by the player is the specific prize ticket 62 that can be exchanged for the actual prize. Alternatively, if the player does not want any of the displayed prizes, the player can opt to receive an amount of physical tickets from dispenser 22 or 20 equivalent to the prize credits won by the player. Or, the player might decide to use prize credits to "buy" additional games on a game unit 10, e.g., convert prize credits to game credits. Those bought game credits can then be stored in a "game credit account", if desired.

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In addition, the operator can easily reconfigure the prize list 344 as required. For example, if a particular type of prize is out of stock, the operator can remove that prize from the list 344 so it is not offered to players. If a new type of prize is being offered, the operator can add prize items to the list 344. Adjustment of prizes is described in greater detail with respect to Figure 9.

The prize list 344 offers advertisers a way to link available prizes to advertisements displayed on the game unit. For example, a particular brand of fast food might be advertised on display screen 54 between games and promoted by informing players that that brand of food is available as a prize for playing the game. When prize list 344 is displayed after a game, items of the advertised brand of food, such as "McDonald's Big Mac" or "Burger King Whopper", are presented as selectable prizes, thus enhancing the advertising effect on the player.

In some embodiments, the player can optionally select a "save tickets" option in the prize selection screen (or the prize credits are saved in the player's account automatically), which will store the amount of prize credits won on a local or a remote storage device as well as identification information to associate the winnings with that player (name, address, etc.). For example, the prize credit information can be stored in a special account for the player that is kept by the operator of the gaming environment, by a more centralized service, or by the player himself on a writeable medium such as a smart card or printed ticket. When the player next plays a game apparatus that has access to the amount of prize credits previously won, the player can add any present winnings to previously stored winnings in the account and thus be able to exchange the combined amount of prize credits for a more valuable prize.

FIGURE 6c shows an example graphical prize selection menu 350 for an alternate embodiment of the present invention that allows a player to select prizes from game unit 50, 10, or other embodiments disclosed herein. Menu 350 can be displayed on display screen 56 or a different output device of the game unit.

Menu 350 portrays various prizes that are available to be exchanged for prize credits. Each prize can be displayed in its own selection box 352. A description 354 of each prize can include the name of the prize and/or any other information related to the prize. Pictorial information 356 preferably portrays each prize accurately and realistically to the player. Prize costs 358 preferably indicate the required number of prize credits to be redeemed for the player to receive the prize. The player can preferably select a displayed prize by moving a cursor or indicator onto a box 352 or otherwise marking a specific box 352. For example, a currently-selected box 352a can be shown highlighted, in a different color, in inverse video, etc. The player can press a button 60 or

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other controls to select the desired prize. Or, the player might select a control such as arrows 360 to display a different "page" of prizes on the display screen 56. The menu 350 can be displayed in a variety of formats and layouts in other embodiments.

In other embodiments of graphical prize menu 350, a 3-D environment can be simulated for the player to "explore." For example, a menu implemented in VRML over the Internet can allow a player to enter 3-D "rooms" and view 3-D visual representations of prizes as they would realistically appear.

FIGURE 7 is a flow diagram illustrating step 266 of Figure 5, in which a tournament game is implemented. Tournaments can be implemented using a single game unit 10 or using networked game units as described above. Players from gaming environments in several different locations can thus interact or compete simultaneously in offered games, or over a predetermined time period during which the tournament is open to players. Such large scale networked tournaments can be administered and provided by services completely independent of the local gaming environment operator. For example, an independent tournament organizing service can implement a tournament from a central server computer that is linked to the participating game apparatuses. The local operator might get a percentage of the proceeds from the tournament for allowing game units 10 at his location to participate. The various options concerning tournments as discussed below can be adjusted by the operator or prize provider, preferably by using a tournament table as shown with respect to Figure 9a.

The process begins at 382. In step 384, at least a portion of the monetary input from the player is directed to a tournament prize. The tournament prize is contributed to by all the players in the tournament. Thus, since it represents multiple contributions, the tournament prize can be worth much more than any specific prize a player might win from a single game, similarly to a progressive bonus score described above. For example, a game may cost \$1 that the player inputs into the game. A portion of this monetary input, such as 50 cents, is applied as a fee to play the game, like a normal redemption or arcade game. The other portion, 50 cents in this example, is applied to the tournament prize. Thus, each time this particular game is played in the tournament by any player, 50 cents is contributed to the tournament prize. This type of apportioning of the cost of the game allows part of the earnings of the game to be provided to the owner of the arcade or other location where the games are made available to the public, and also lets part of the earnings be apportioned to a tournament prize provider, who can be a separate entity from the arcade owner or operator.

In yet other embodiments, the tournament prize value can be increased or determined using other or additional criteria besides monetary input. For example, the



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tournament score's value might be based on the number of players in the tournament, the duration of the tournament, a predetermined number, the number of goals achieved during the tournament, etc.

The tournament prize can be an actual physical prize, such as a computer, stereo, etc.; or the tournament prize can be in a form of currency, such as prize credits, vouchers, or cash that are exchangeable for other prizes. For example, the tournament prize can be indicated in terms of monetary units, such as dollars and cents. In other embodiments, the tournament prize can be expressed as a number of points that have a correspondence to the amount of monetary value contributed to the tournament score by the game unit 10a or 10b. For example, every dollar of monetary value contributed by a game unit can be expressed as 10 points of tournament prize. Or, a tournament prize can be expressed in terms prize credits used on the individual game units 10a and 10b, allowing a winning player to select prizes using a game unit's usual prize selecting mechanism, described above with reference to Figures 6, 6b and 6c.

Since the tournament prize may be continually growing, its value must continually be updated so that players will know the most current prize value for which they are competing is displayed by the game unit. For tournaments implemented on one game unit, the only contributions in the tournament are received on that game unit, so the tournament prize is simply increased when a player on that game unit joins the tournament. On multi-game systems, the current tournament prize information is sent out to all the individual game units able to participate in the tournament. One or more servers can be used as described above, or game units can be interconnected and relay any updates to the tournament prize to each other.

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In next step 386, a game process is implemented by the game unit, similar to step 322 of Figure 6. In step 388, the process checks whether the game is over. If not, step 386 is implemented until the game is over. In next step 390, the results of the game and any other necessary information is added to a tournament list. The tournament list preferably includes all the players in the tournament by name or other identification and their associated game scores. In other embodiments, additional information can also be 30 stored in the tournament list which can be used to help determine a winner or to provide statistical information for the operator of the tournament. For example, the time the player took to play a game, the number of times a player has participated in similar previous tournaments, etc.

If a server 108 is being implemented, then the tournament list is typically stored 35 on the tournament server. The game unit thus sends the game score to the tournament

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server over a network link. If the tournament is being implemented on a single game unit, the tournament list can be stored locally on that game unit.

In some tournament embodiments, a player's identification need not be known. Each game score can be stored in the tournament list with an associated ID verifier that is assigned to the game score by the game unit or linked server. The ID verifier can be a number, word, symbol, etc. that is randomly generated or determined according to a predetermined pattern. Once the ID verifier is determined, it is displayed to the player so that the player can later claim their game score. For example, a ticket can be dispensed to the player with the ID verifier on it. Once the tournament is over, the ID verifiers of the tournament-winning scores can be advertised, and the winning players can claim the tournament prize by presenting their ticket or by otherwise providing their winning ID verifier to the prize provider.

In other tournament embodiments, the tournament list of scores may only include the top n game scores, where n is a predetermined number of winners. In such an embodiment, a game score is not stored on the tournament list unless it is greater than (or equal to) the lowest winning game score already on the tournament list. Thus, the player need not provide any identification if his or her game score is too low. If a player's game score currently qualifies to be on the tournament list, the player can provide identification. For example, the player might then enter his or her name, initials, etc. using an input device. Of course, later player's scores might cause previously-qualifying scores to be removed from the list when the previous scores are no longer high enough.

In step 392, the process checks whether the tournament is over. An individual game unit 10 can check for tournament conclusion by, for example, sending a request to a tournament server 108, which checks the tournament conditions and can send a response back to the individual game unit. Or, tournament conditions can be checked by a game unit implementing a tournament solely on that game unit.

There are several conditions which can be set by the tournament operator to cause a tournament to conclude. A tournament can conclude based on time duration, number of players that have entered the tournament, amount or worth of the tournament prize, when 30 a predetermined game score has been reached by one or more players, when a predetermined number of goals have been reached in participating games, when players/game units from predetermined locations have participated, when an event outside the tournament occurs (e.g., a football season ends, a world series concludes, etc.), when a predetermined number of minimum scores are achieved by participants in the tournament, or other conditions; or, a combination of two or more of these conditions

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can be applied.

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PATENT LAZIP026 Page 139 of 171 For example, in a tournament server embodiment, a predetermined number, "n", of players can be allowed to participate in a tournament. When the last allowed player has finished a game, the tournament can be concluded. The tournament server 108 can store the number of tournament participants who have already completed their games and thus can easily determine when the nth player has participated. Other conditions can also be checked; for example, a tournament might conclude based on a condition of time duration of the tournament, where the expired time since the tournament began can be checked in step 392 (such a check can also be made periodically by the game unit regardless of player activity on the game unit). For example, a tournament might last one week, and then automatically end.

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If the tournament is over in step 392, then the process performs step 394, where the tournament is concluded as detailed with respect to Figure 8. The process is then complete at 396. If the tournament is not over, then the process 380 is complete at 396.

FIGURE 8 is a flow diagram illustrating step 394 of Figure 7, in which a tournament is concluded. The process begins at 400, and in a step 402, the tournament score is assigned to the top player or players in the tournament list. Preferably, a predetermined number of the players with highest score in the list have "won" the tournament. For example, the top three players, as shown below in Figure 8b, can be awarded portions of the tournament prize.

The tournament prize can be divided among the top tournament players in a variety of ways. In one embodiment, a predetermined proportion of the tournament prize is provided to the top players; for example, first place receives 60%, second place receives 30%, and third place receives 10% of the tournament prize. The operator or tournament organizer can preferably alter these percentages as desired, as shown in Figure 9b below. Alternatively, the proportion can be determined by the difference between the top players' scores. For example, if the second place player's score is very close to the first place player's score, the tournament prize can be divided almost equally between these two players.

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In step 404, the tournament results are communicated to individual game units that participated in the tournament. These tournament results can be viewed by players to see who won the tournament. Game operators and/or tournament prize providers are also informed which players receive the tournament prize. Players may be required to return to the game unit 10 on which they played to see the tournament results and to determine if they have won the tournament. Alternatively, the player might check any game unit (or computing device) that was linked to the tournament information through network connections.

Winning players can actually receive their portion of the tournament prize in several ways discussed above. For example, the prizes can be sent to the winners, collecting the prize at the location where the game was played, receiving prize credits to select a prize using the prize menu, etc. A player that wins a tournament can also receive a specific prize ticket that can be exchanged for a valuable prize, such as a bicycle or \$200 worth of merchandise at a related retailer. The tournament prize offers another way for advertisers on game units 10 to provide brand-related prizes to players and to enhance the advertising effect on players. For example, a bicycle company might advertise their particular brand of bicycle as a tournament prize.

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In step 406, the tournament prize or score is reset. The process is then complete at 408.

In other embodiments, after a tournament is concluded, a player may be required to play additional games to determine a winner as, for example, in elimination-type tournaments where players compete in successive rounds and are eliminated from the tournament after losing a predetermined number of games.

FIGURE 8a is a tournament standings display screen which is preferably displayed by the individual game unit after a selection of the tourney leaders button 282 or after a tournament is complete. The tourney leaders button 282 is shown highlighted in Figure 8b to indicate that it has been selected. Main display window 274 displays a number of players, scores, and prizes for different games. For example, a tournament for the game "Scud Attack" is currently ongoing, and the window 274 lists the three players 420 who have so far achieved the highest scores in the tournament, the game scores 422 for each of the players, and the cash prize 424 that each player would win if the tournament were to conclude with the current standings. In alternate embodiments, 25 winners of a tournament can win prize credits or other prizes instead of cash. When the tournament has concluded, the main window 274 preferably displays "TOURNAMENT ENDED" or similar information to indicate that a player cannot join the tournament. Similar tournament standings are displayed in window 274 for the game "Super Solitaire." Tournament standings for other games can be displayed by selecting the next 30 and previous page indicators 426. Preferably, concluded tournaments that have ended within a previous predetermined time period (such as within the last week, month, etc.) are still available to be viewed by later players of the game unit 10 to give them an idea what types of scores are typically achieved by players in a tournament game and the amounts or types of prizes won by players.

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FIGURE 9 is a flow diagram illustrating a process 440 of the present invention for allowing the operator of the game redemption system to adjust prize characteristics of the

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system. This process can be implemented on a game unit 10 utilizing the game processor 12 and other components; or, this process can be implemented on consoles, computers, or other terminals separate from the game unit. The separate unit can then provide the prize table and other information to individual game units 10 over a network or other communication link; or, the operator can manually transport the prize information over a medium such as a magnetic disk or other storage medium. The process begins at 450, and in a step 452, a prize table is displayed for the operator.

FIGURE 9a is a diagram of an example of a prize table 480 for use with the present invention that is displayed to the operator in step 452. The prize table 480 is preferably displayed by a display screen such as screen 56 of game unit 10 or 50 so that the operator can adjust prize characteristics for that game unit and any linked game units, if desired. Alternatively, the prize table can be displayed on a separate operator terminal, computer, server, or game unit that may be linked to game units 10. In such a system, the operator would modify the prize characteristics as desired and send any updated characteristics to all linked (or all desired linked) game units over a network or other communication device.

Prize table 480 of the described embodiment includes a list of available prizes 482, an actual cost 484 of each prize in list 482, the prize value 486 for each prize in list482 in terms of prize credits or tickets, the specific prize win percentage 488 for each prize in list 482, the prize credit global payout percentage 490, and the specific prize win percentage 492.

Prize list 482 includes a text name of each prize the operator wishes to include in the redemption system. Preferably, the operator can simply select a field of the table and enter a new prize name, change an existing prize name, or delete existing prize names. The operator can input this information using such input devices as a keyboard, pointer mechanism, stylus, tablet, etc. Preferably, the operator lists prizes from the least worth to the most worth; or, the system can automatically sort the prizes in a preferred order. In alternate prize table embodiments, the operator can enter additional text description for a prize, such as physical dimensions, systems or standards with which the prize is used, 30 color, or other characteristics. In still other embodiments, the operator enter a graphical description of a prize, such as a bitmap or other pictorial data format. For example, the operator can upload a graphical file to the redemption system from a personal computer. This would be more suitable for a redemption system having a graphical prize selection screen for players, as shown in Figure 6b. In some embodiments, the operator can

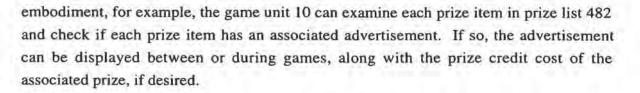
35 provide descriptions of particular brands of prizes in prize list 482 in exchange for advertiser money. The operator might also input specific advertisements to be displayed on game unit 10 and associate those ads to items in the prize list 482. In such an

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Actual cost field 484 lists the cost of the associated prize which the operator or prize supplier has purchased and/or which the operators sells. For example, a pizza may be sold to players for \$15.00 in a particular gaming environment, but the actual cost to the operator for making the pizza may be \$3.00, which is the price the operator would input to the table. Similarly, the operator or prize supplier may be able to purchase prizes in bulk for a significant discount, and that discounted price would be provided in the fields 484.

Prize cost field 486 lists the amount of prize credits that a player must pay to receive or purchase the prize associated with the prize cost. These costs are displayed directly on the prize selection screen as described above. For example, to win a small pizza, a player must have at least 600 tickets or prize credits in his or her account, and to win a video game console, 20,000 tickets are required. Thus, more expensive prizes can be won less often since they require greater amounts of prize credits to purchase. Expensive prizes such as a video game, bicycle, etc., typically cannot be bought from prize credits won at one game session (unless, e.g., a progressive bonus score is received or they are won as specific prizes), so players will have to save up prize credits for these prizes as discussed above. In the preferred embodiment, the prize costs listed in fields 486 are determined by the redemption system based on other information that the operator has input, such as actual cost and global payout. This is described in greater detail subsequently. In addition, the operator may enter a particular prize cost he or she wants to be associated with a prize, and other appropriate fields in prize table 480 are automatically adjusted by the redemption system, as discussed below.

Specific prize win ratio fields 488 list the individual prize ratios of winning the associated prizes as a specific prize or an "instant prize" during a game implemented by the game unit 10. In one embodiment, each ratio indicates that the particular specific prize will be won every n<sup>th</sup> game played on the game unit in which a specific prize goal 30 was met, where n is the number listed in the fields 488. For example, if a specific prize goal must be met to win a specific prize, then the specific prize is awarded every n games in which the specific prize goal was met. The specific prize goal may be met by skill of the player during a game (e.g., hitting a specific target or getting a certain score), by random chance (e.g., a 10% chance each time a game is played to win), or by a mixture of skill and chance.

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Similar to the prize cost fields 486, the specific prize ratios 488 are automatically determined by the redemption system based on other operator input such as actual cost 484 and the specific prize global win ratio 492, as discussed below. Also, the operator can enter a desired win ratio 488 for a particular prize, and other appropriate fields in the prize table 480 are automatically adjusted to take into account the entered ratio. These processes are discussed in greater detail below.

The prize credit global payout percentage 490 is a separate field of prize table 480 that allows an operator to view and to change a global payout percentage based on all of the prizes in the prize list 482, their actual cost 484, and their purchase cost 486. The term "payout", as used herein, is intended to refer to any transfer of monetary value given back to the player of the game apparatus or game system. Most commonly for redemption systems, payout is in the form of prizes, but it may also be cash, unredeemed tickets, prize credits, etc. The overall payout from a game during a time period should be subtracted from the total revenue of the game during that time period to determine how much (net) profit the game made. Net profit can be further determined by subtracting any other costs accrued in providing the game from the gross profit, such as rental or purchase fees of the game unit, maintenance/repair costs of the game unit, and other costs.

The prize payout percentage 490 indicates the payout of the game unit 10 as a percentage of an operator's revenue from the game that the operator will pay back, on average, to players in the form of prize credits or prizes purchased using prize credits. For example, the 20% listed in Figure 9a indicates that 20% of all base revenue from all of the games played on a particular game unit 10 will be paid back in the form of prize credits and prizes selected from prize credit winnings. In linked game embodiments, the 25 percentage 490 can indicate that 20% of the revenue of all the games played on all of the linked game units will be in the form of payout. In the preferred embodiment, this percentage number in field 490 is entered by the operator, and the redemption system will automatically adjust the prize cost 486 to achieve that value. The operator can also select the buttons 491 to adjust the value by 1% increments. Alternatively, the operator can adjust the prize purchase cost as described above, and the global payout percentage 490 will be appropriately adjusted by the redemption system. This is discussed in greater detail below.

The specific prize global payout percentage 492 is a separate field of prize table 480, similar to field 490. Specific prize global field 492 allows an operator to view and to change a global payout percentage that is based on all of the prizes and prize ratios in fields 488. The payout percentage 492 indicates the percentage of an operator's revenue from the games that the operator will pay back, on average, to players in the form of

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Higher valued prizes are won less often than lower valued prizes. For example, a small pizza will be won every 120 games played, while a video game console will be won every 4000 games. Since only one of the specific prizes should be awarded each time a specific prize goal is met, the system preferably examines each prize in turn, starting with the most valuable prize in the specific prize list 482. For example, whenever a game is played on game unit 10, a game counter is incremented. When a player wins a specific prize after a specific prize goal is achieved in a game, the video console prize is first checked, i.e., the system checks whether the current game is the 4000th game (where the goal was met) since the video game console was last awarded to a player on this game unit 10 (or the 4000th game since console was awarded within the entire redemption system, i.e., among multiple game units 10). If so, the console is awarded. If not, the next most valuable prize in the table (e.g., the T-Shirt) is similarly checked. This continues until a prize in the table is selected. If none of the prizes are selected, then no prize can be awarded, or a default prize can be awarded as the specific prize; for example, in the described embodiment, 10 prize credits (equivalent to the average number of prize credits given out in a game) are awarded as a default prize.

Alternatively, the ratios can indicate that a particular specific prize will be won every nth game played, regardless of whether a specific prize goal was met in the games played. Alternatively, the selection of a specific prize from the table 480 can be based on

random and/or statistical determination. For example, the individual ratios 488 may indicate the chance of winning the particular listed prize when a specific prize goal is met (the goal can be met by skill, chance, etc.). The game unit can start with the most valuable prize in thelist as above and determine if that prize is to be awarded by generating a random number; for example, if a random number between 1 and 4000 is

- 25 "1", then the video game console has been won and no further prizes need be checked. If that prize has not been won, the next most valuable prize on the list is randomly checked, and so on until no prizes are left in the table to check, at which point a default prize can be awarded, or no prize at all. Specific prize selection from a table of prizes is also described in co-pending parent application 08/628,490. In one embodiment, the random
- determination of whether a particular prize is to be awarded is also modified by statistical information to create a "best fit" of prizes awarded according to the operator's desired odds; this is done to offset the sometimes undesirable results that purely random (or pseudo-random) determination provides. For example, every 8000 games, 2 video consoles are to be awarded. If it is randomly determined that a third video console is to 35 be awarded within, e.g., the 3000th game, then a different prize can be awarded so that the desired odds are better met. For example, the next most valuable prize in the list can be awarded instead of the video console, as long as awarding the next prize would fit the desired odds for that prize.

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specific prizes based on the ratios in fields 488. In the preferred embodiment, this percentage number in field 492 is entered by the operator, and the redemption system will automatically adjust the ratios 488 to achieve the percentage value. The operator can also select the buttons 494 to adjust the value by 1% increments. Alternatively, the operator can adjust the ratios as described above, and the global specific prize payout percentage 492 will be appropriately adjusted by the redemption system. This is discussed in greater detail below.

In the preferred embodiment, the operator is intended to enter desired payout percentages in fields 490 and 492. When these two percentages are added together, the resulting percentage shows what total percentage of revenue that the operator will be paying back to players in total prize credits and prizes. The operator can thus enter desired payout percentages to fit within his or her operating expenses and desired profitability of the game units 10. Since the redemption system will automatically adjust prize costs and specific prize win ratios, the operator need not be concerned with calculating his or her own prize costs, as in previous redemption systems.

Referring back to Figure 9, after the prize table has been displayed in step 452, the process continues to step 454, where the process checks whether the operator has adjusted the prize name list 482 or actual cost fields 484. If so, then in step 456, the global payout percentages 490 and 492 and the fields 486 and 488 are adjusted according to the relationships described below based on any new actual cost values entered by the operator, and the process continues to step 478, where the process checks if the operator desired to exit the prize table. If not, the process returns to step 454. If so, the process is complete at 476.

If no adjustments are made in step 454, the process continues to step 458, where it 25 is checked whether the operator wishes to access the tournament setup table (the tournament setup table can also be accessed directly, without accessing prize table 480). If so, the process receives input to any of the fields in the table in step 460 and modifies the tournament characteristics accordingly. This table is described with reference to Figure 9b. The process then continues to step 478.

30 If no tournament table is accessed, the process continues to step 462, in which the process checks if the operator has adjusted the prize global payout in field 490. The operator can use a pointing device to point to the field and then use a keyboard, or select buttons 491. If such an adjustment is made, the process continues to step 464, in which the prize cost 486 is adjusted, if necessary, to achieve the global payout entered by the 35 operator.

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The prize cost 486 is adjusted as follows. A prize cost is calculated separately for each prize listed in list 482. A prize actual cost, A, which is provided by the operator, is divided by the global payout percentage entered by the operator, P, where

$$R = A / P \tag{1}$$

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The resulting value R represents the amount of revenue required to achieve the desired payout percentage. For example, a candy bar costs the operator \$ 0.30. To achieve a 20% payout on each candy bar, the operator must take in 0.30 / 0.20 =\$ 1.50 on the game unit for each candy bar prize thus awarded.

Once the required revenue R is determined for a particular prize, then the average 10 number of prize credits or tickets T that are known to be awarded per game is determined (average ticket payout). It is possible for the game's manufacturer to adjust game difficulty so that, on average, a predetermined number of prize credits will be awarded for each game played. For example, games often have a payout about 8-12 tickets game, averaging to about 10 per game. The difficulty and thus the average prize credits awarded per game can be adjusted using a variety of techniques that depend on the type of game being played. For example, in an action game the speed of controlled objects, response of input devices, etc., can be adjusted so that most players don't receive a score higher than a particular value. In card games, the frequencies of winning combinations of cards can be adjusted. In guiz games, the difficulty of the questions at various times 20 during the game can be adjusted so that average players will typically win a certain number of prize credits per game. Durations of games which have a fixed duration can also be adjusted to achieve an average payout level of prize credits.

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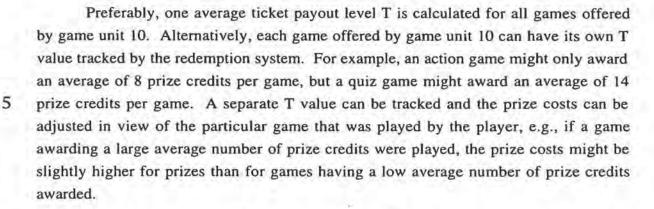
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After the game unit 10 has been in use for some time, the average number of prize credits awarded per game, T, need not be estimated, but can be exactly determined and continually readjusted by monitoring each game played on the unit 10, recording the number of prize credits awarded for each game, and then averaging over all the played games to obtain a precise prize credit payout average. Previous game data can be stored in a storage device local to the game unit 10 or on a separate medium or a remote apparatus such as server 108. Thus, if it were found that the average game on a game unit 10 were actually paying out 12 prize credits instead of the initially estimated 10 prize

credits, the prize costs could be adjusted accordingly with the present calculation method. This provides the operator with current, accurate information about how much prizes should cost in prize credits in order for the game unit to achieve a desired profitability. By having the redemption system of the present invention incorporated into game unit 10,

35 this type of precise data gathering on actual ticket payout percentages is possible, thus allowing prize costs to be accurately adjusted.

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Once the average number of prize credits T awarded per game is known, this value can be converted to a value V using the cost per game C, where

$$V = T / C$$
 (2)

For example, if the average number of prize credits awarded per game is T = 10, and each game costs the player \$ 0.25 (C = 0.25), then 10 / 0.25 = 40 prize credits are awarded for each dollar inserted by the player into the game unit. V can be multiplied by the required revenue R to achieve the prize cost (PC) 486, such that

$$PC = R * V \tag{3}$$

In the example above, a required revenue R was determined to be \$ 1.50. Thus, the desired prize cost PC required to achieve the desired revenue R is 1.50 \* 40 = 60 = PC. Thus, a player must pay 60 prize credits from his or her credit account in order to receive a candy bar prize. Other prize cost results for other prizes using these example numbers and known actual costs are shown in Figure 9a.

Combining the above relationships (1), (2) and (3) yields a succinct equation:

$$PC = (A * T) / (C * P)$$
 (4)

Once the prize costs 486 have been adjusted in step 464, the process continues to step 478.

In step 466, the process checks whether the operator has adjusted the specific prize global payout percentage 492. If not, the process continues to step 462. If so, step 468 is implemented. In step 468, the individual specific prize win ratios 488 are adjusted to achieve the desired global percentage 492 input by the operator.

The individual ratios 488 are adjusted as follows. A formula can be used to determine the individual ratios, as shown:

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where the B is the number that follows the "1 in" in the individual ratios 488 (e.g., "1 in 18", B = 18), M is a multiplier, and A is the actual cost of the particular prize as shown in fields 484. The multiplier M can be determined by another relationship:

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M = (N \* H) / (P \* C)(6)

where N is the number of specific prizes in the list 482, P is the global payout percentage entered in field 492, C is the cost per game on the game unit, and H is the hit ratio for specific prize goals on the game unit. The "hit ratio" is the fraction of games played, on average, in which a specific prize goal is met and thus a specific prize is won. The hit ratio can be an average chance that an independent skilled task will be completed by the player and a specific prize won; alternatively, if no skilled task need be completed to win a specific prize, then the hit ratio can be the random or statistical chance that a specific prize is awarded during a game. Initially, the hit ratio is determined by the game developer, since the game developer can adjust the difficulty of the specific prize goal so that a "hit" occurs after a predetermined average number of games similarly to adjusting average awarded prize credits.

An estimated hit ratio as determined, for example, by the game developer is initially used in the above calculation of equation (6). In embodiments having skilled specific prize goals, once the game unit 10 has been played one or more times by actual players (e.g., after 100 times), the system can automatically adjust the hit ratio to the actual win frequency determined from the players' use of the game unit 10 by, for example, storing the number of games played and the number of times the specific prize goal was hit. This is similar to the determined that the specific prize goal was hit 11 times over 100 games, then the hit ratio is more accurately provided as 11% rather than the 10% initially estimated. This actual hit ratio would then be used in the calculation of equation (6).

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As an example, the operator enters a specific prize global payout percentage P of 10%. The number of specific prizes N in table 480 is 10, the cost per game is 0.25, and the hit ratio is 10%. The multiplier M of equation (6) is thus determined as (10 \* 0.1) / (0.1 \* 0.25) = 40. Thus, for a small pizza having an actual cost of 3.00, B = 40 \* 3.00 = 120. Thus, the individual ratio 488 for the small pizza would be 1 in 120. A ratio for a larger prize such as the video game console (A = 100) would be 1 in (40 \* 100) = 1 in 4000.

In the preferred embodiment, each offered game is normalized to the desired specific prize ratios based on the frequency of players achieving the specific prize goal. The redemption system may perform the normalization by applying separate hit ratios for each game offered on game unit 10. For example, some games may have much different hit ratios than other games depending on the nature of the game action, randomness, etc. and the difficulty of the specific prize goal. The hit ratio for a specific prize should thus reflect the difficulty in achieving a specific prize goal for a particular game. In a game unit system, all the types of games offered by all linked game units in the system can have a unique hit ratio used for determining an individual ratio 488.

A "base" hit ratio can be determined for one of the games offered on game unit 10. The ratios stored in fields 488 of the prize table 480 can be determined based on this base hit ratio. In addition, in the described embodiment, a "normalization factor" can be stored and used for each game offered by the game unit 10 (or for each game within the redemption system or offered all linked game units). The normalization factor indicates how much an individual ratio 488 should be adjusted based on the particular game played. For example, see Table 1.

NORMALIZATION FACTOR

Scud Attack	1
Solitaire	2
Quiz	0.5
Fun 21	0.33

GAME

## TABLE 1

When a specific prize goal is met by a player and the system determines the specific prize (e.g., step 338 of Figure 6), the game unit 10 (or server) multiplies the ratios 488 in the prize table by the normalization factor for the game played. Thus, if the played game has a hit ratio equal to one-half the base hit ratio (i.e., normalization factor = 0.5), such as the "Quiz" game in Table 1, then the ratios 488 are multiplied by 0.5 before the specific prize is determined. However, when a game having a hit ratio equal to the base hit ratio is played, the ratios 488 need not be adjusted.

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The base hit ratio and normalization factors can be estimated initially. After a number of games have been played on a game unit 10, the normalization factor for each game can be based on the actual hit ratio determined for each game. The redemption

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system separately keeps track of actual hit ratios for each game offered on game unit 10 by recording the number of games (for each type of game) and the amount of specific prize goals met.

In some embodiments, specific prize ratios 488 are only displayed to an operator in prize table 480. In other embodiments, the ratios 488 can be shown to players so that they can determine the odds of winning available prizes. After determining individual ratios 488, the process continues to step 478.

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In step 470, the process checks if the operator has adjusted the prize cost field 486 of any of the listed prizes. Operators having more advanced knowledge of offered prizes and desired prize costs are thus able to affect the profitability of the game apparatus to a fine degree. An operator may want to reduce an individual prize cost to cause that prize to be selected more often by players, thus serving to promote/advertise a prize or brand name, or reduce excess inventory of that prize. Similarly, an operator may want to increase a prize cost to cause that prize to be selected less frequently by players than other prizes. If no adjustment to prize costs is made, the process continues to step 474. If adjustment is made, then in step 472, the global payout 490 of the prizes is adjusted in accordance with the operator-changed prize costs. In performing this step, the same mathematical relationships can be used as described above for step 464, except that the global payout percentage P is solved for. For purposes of this step, each prize in the table can be considered to have its own payout percentage. Thus, payout percentage P is calculated for those prizes that the operator changed the prize cost, and the unchanged prizes are assumed to have the old payout percentage. An average global payout percentage can then be obtained by adding all the individual payout percentages and dividing by the number of prizes. This average payout percentage would then be displayed in field 490 of the prize table. The process then continues to step 478.

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For example, in table 480 of Figure 9a, the operator changes Video Game Consol prize to cost 10,000 prize credits instead of 20,000. An individual payout percentage for the video game console is calculated, using the relationships of step 464, to be P = 40%. The unchanged prizes each have a payout P = 20%, so that the averaged payout percentage would be (9\*20% + 40%) / 10 = 22%, which would be displayed in field 490 as the global payout percentage. This averaged payout percentage determined after an operator has changed prize costs is not as accurate as the prize cost-payout percentage relation obtained in step 464, especially if players choose the prize having the changed cost more or less often than other prizes. However, the averaged percentage provides the operator with an estimate of payout that is accurate enough for most purposes.

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In step 474, the process checks if the operator has adjusted the individual specific prize ratios 488. Similarly to the prize costs of step 472, the operator may change individual specific prize win ratios to exert a greater degree of control over a game's or a prize's payout and profitability. If such a change is made, then in step 476, the process adjusts the specific prize global payout percentage 492 accordingly.

In the described embodiment, the specific prize global payout is adjusted as follows. The relationships of step 468 can be arranged to solve for an individual payout P when the ratio B is changed for a particular prize. When P is solved in such a fashion, the number of prizes N is equal to 1 in Equation (6) since an "individual" payout is being calculated only for the changed prize. Once the individual payout P is known for the changed prize, it is summed with the individual payouts for the other prizes in table 480 to achieve the global win payout percentage 492. For example, using the table 480 of Figure 9a, if the operator changes the individual win ratio of the T-Shirt from 1 in 160 to 1 in 100, then the individual payout P for the T-Shirt would be (N\*H\*A) / (B\*C) = (1 \* 0.1 \* 4.00) / (100 \* 0.25) = 0.016 = 1.6%. Each of the unchanged prizes in the table 480 has an individual payout of P = 1 % (which can be determined by dividing the global percentage 492 by the number of prizes N, or by using the relationships of step 468). Thus, the new specific prize global payout percentage is equal to 9 \* 1% + 1.6% = 10.6%, which is displayed in field 492. The process then continues to step 478.

If no operator adjustment is made to the ratios 488, or after step 476, the process continues to step 478, where it is checked if the prize table is exited. If not, the process returns to step 454, and if so, the process is complete at 480.

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It should be noted that, in the foregoing explanation, the process has been described as if the checking steps 454, 458, 462, 466, 470, 474, and 478 are serially executed. However, as will be appreciated by those skilled in the art, in practice such a serial checking method is not specifically required. Rather, in practice, the various described checking steps can be simultaneously checking for the described conditions, and functions (e.g., steps 456, 460, 464, 468, 472, and 476) can be call routines which are executed when called.

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as credit prizes and as specific prizes during or after a game played on the game unit 10. In the preferred embodiment, the operator may also choose particular prizes to be unavailable as credit prize and/or to be unavailable as a specific prize. In the described embodiment, the operator inputs a flag, such as "0", "NA", or other symbol, in the fields associated with those prizes which the operator wishes to make unavailable. For example, if the operator does not wish to allow players to buy a T-Shirt prize with prize

In the described embodiment, the prizes in list 482 are eligible to be awarded both

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credits on the prize selection screen of Fig. 6b, the operator can put an "NA" (Not Available) symbol or characters in the field 486 corresponding to the T-Shirt. Similarly, if the operator does not wish the T-shirt to be available as a specific prize during any game, then the operator enters "NA" in the field 488 corresponding to that prize. Alternatively, separate lists 482 of prizes can be provided for credit prizes and for specific prizes.

In an alternative embodiment, prize table 480 can receive input from servers or other computers, operators, or prize distributors (such as a "national prize center") at remote sites or nodes over a network or other communication device instead of a single 10 operator. This received information can include the prize list 482, actual cost 484, and/or any other information in prize table 480. For example, the list of prizes 482 can be sent periodically as a "prize catalog" from a prize distributor or supplier which offers an upto-date listing of all available prizes and thus reflects the current prize inventory of the prize distributor. After receiving the list of prizes, the operator could then enter the desired global payout percentages 490 and 492; or, this payout information can be received from a central location as well, such as a franchise headquarters. Information in prize table 480 can be stored locally, or by the central location and be downloaded when needed. After the player selects a prize from the prize selection menu, the selection information can be sent to the prize distributor over the network, and the player can be mailed his or her selected prize from the prize supplier. This may be more convenient for operators, especially when large prizes such as bicycles are won by players. If the prize is mailed, the prize supplier would typically require an address of the player where the selected prize can be sent to. The player can manually enter the requested address information in game unit 10 using an input device, or the address information might 25 automatically be entered when the player provided monetary input to game apparatus 50 through the use of a credit or debit card or similar electronic identification. Alternatively, the prize can be mailed to the gaming environment, where the player can pick up the prize from the operator.

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Such a system of receiving the list of prizes and other information from a remote source also is suitable for redemption systems having multiple linked games, such as the embodiments of Figures 3 and 4. The same prize list can be provided to all games in the redemption system from a central prize database stored on a server or other storage device, thus providing uniformity of the types of prizes offered to games in a gaming environment or over a larger region.

In alternate embodiments, each type of game offered on game unit 10 can be associated with its own distinct prize table 480, having its own desired level of payout and profitability, its own list of available prizes, etc.

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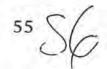
The ability of the operator to change the prizes available to be won on a game apparatus in the present invention provide the operator with a great deal of flexibility in offering and coordinating a redemption system, which can be tailored to a specific type of location. For example, an operator can provide a different set of available prizes for each different type of offered game or game apparatus in one location or at different locations. Thus, a player of a card type game oriented for adults might be able to select from prizes including a deck of cards, cash, an alcoholic drink, or other related prizes, while a player of a game oriented for children might be able to select from prizes including toys, candy, or stuffed animals. Furthermore, the operator can designate particular game apparatuses in a gaming environment as "special" games that offer a specialized prize list having prizes of greater value, more selection, etc. that are different from other prizes available from other games at the gaming environment. This type of wide-ranging and differing prize availability on different games and game units in a single game environment would be far too time-consuming and complex to implement using traditional redemption systems.

FIGURE 9b is a diagram showing a tournament setup table 490 for entering tournament characteristics by the operator, prize distributor, or other source. Table 490 includes a column 492 of the available games on the game unit 10 or in the redemption system. For each of these games, there are several characteristics listed fields in table 490 which are receptive to operator input and adjustment. Tournament On/Off field 494 allows the operator to provide a tournament option for designated games, and to turn "off" the tournament for specified games when desired. Some games may not ever be suitable or desired for tournament play, and can have a "not available" selection. Games required field 496 indicates the number of non-tournament for that game. For example, after three game credits are inserted, the player has the option to participate in a "Scud Attack" tournament (if offered). The operator can provide a zero value in field 496, if desired to allow players to participate in tournaments at will. Cost per game field 498 indicates the number of coins (or cents, dollars, game credits, etc.) that each game normally costs to play.

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Percentage field 500 indicates the percentage of income from the player to the game unit 10 will be used as a contribution to the tournament prize. In effect, this is a "payout" percentage similar to the percentages 490 and 492 of prize table 480 showing how much of the revenue of a tournament is paid back to players, and thus allows and operator to designate a desired level of payout and profitability of the tournaments (the seed money in field 502 should also be added to the payout value to determine total payout). In the described embodiment, this percentage is the amount of cash that is



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contributed to the tournament prize, where the tournament prize is cash. In other embodiments, the tournament prize can be prize credits, specific prizes, or other prizes having a value, where the value of the tournament prize depends on percentage value 500.

Seed money field 502 provides the operator with a starting value of the tournament prize and may be adjusted as desired. Thus, if only a few players participate in a tournament and thus few contributions are made to the tournament prize, there will still be some incentive to win since the player can win the seed tournament prize. Place percentage fields 504 allow the operator to designate how the value of the tournament prize is to be divided up among the top players in the tournament. The operator can designate the percentage of the prize going to the first place winner, second place winner, etc. Additional place winners past 5th place can also be designated, if desired.

Start date field 506, start time field 508, end date field 510, and end time field 512 indicate when the designated tournaments will be held. The operator can designate particular time periods for tournaments; when the end date and time have expired, no further players can participate in the tournament and the tournament prize is divided up among the top players. In other embodiments, additional description fields can be provided to allow the operator to designate holiday periods, sports seasons, a certain time period of every day, month, or year, or other periods that cannot be conveniently specified in a single time range. Repeat tournament field 514 allows the operator to select whether a particular game's tournament will be automatically repeated once the previous tournament has ended. Alternate fields might also be provided to designate further conditions concerning when or how tournaments will repeat.

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Of course, additional fields can be provided in tournament table 490 to allow the operator to designate further characteristics of tournaments, such as additional conditions to cause a tournament to conclude (as discussed above in Fig. 7), participation based on predefined characteristics (age, member of a group or club, "preferred customer" status, whether they have achieved a "tournament goal" in a game, etc.), providing various skill levels or handicaps, and providing special tournaments with different prizes and conditions. As for the prize table 480, some or all of the fields can be manually input by the operator, or remotely input by operators, a linked server, or other source.

The tournament table 490 allows the operator further control in determining available prizes, options, and profitability of the redemption system of the present invention. Furthermore, the ease of use of the tournament table 490 allows the operator to spend a minimal amount of time defining desired tournament characteristics and profitability.

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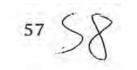
While this invention has been described in terms of several embodiments, it is contemplated that alterations, permutations, and equivalents thereof will become apparent to those skilled in the art upon a reading of the specification and study of the drawings. For example, many types of games can be provided for use with the disclosed redemption

5 system. The redemption system can be implemented on a single game unit or among multiple connected game units, with or without use of a server. Various goals can be attempted by players in a game to win prize credits, specific prizes, or tournament prizes. The provision of prizes to players can be achieved in many ways, including specific prize tickets or coupons, sending a prize to a player, or electronically indicating to an operator

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the prizes won and/or selected by a player. It is therefore intended that the following claims include all such alterations, permutations, and equivalents as fall within the spirit and scope of the present invention.

What is claimed is:



## CLAIMS

1. A method for providing a redemption system for players of a game apparatus, said method comprising:

providing a game on said game apparatus for a player to play;

providing a number of prize credits for said player based on an outcome of said game;

providing a prize selection menu for said player, said prize selection menu displaying at least one prize selectable by said player; and

receiving an indication of a selection of a prize by said player, said indication resulting from input by player using an input device of said game apparatus, wherein said selected prize is provided to said alayer after said indication is received.

2. A method as recited in claim 1 wherein said player plays said game in exchange for monetary input from said player to said game apparatus.

3. A method as recited in claim 2 wherein said outcome of said game is influenced by skill of said player.

4. A method as recited in claim 2 wherein said prize selection menu is displayed on a display screen of said game apparatus.

5. A method as recited in claim 1 wherein said prize selection menu is displayed on an apparatus separate from said game apparatus.

6. A method as recited in claim 2 further comprising a step of dispensing a specific prize ticket describing said selected prize and which is redeemable for said prize.

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7. A method as recited in claim 2 wherein said prize selection menu includes a prize cost for each of said prizes provided in said prize selection menu, and wherein prize credits equal to said prize cost are subtracted from said player's prize credits after said player has selected said prize.

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8. A method as recited in claim 7 wherein said providing a game includes providing an option to said player of playing a single game for prize credits based on a game score and providing an option to said player of playing a tourhament game for a tournament prize contributed to by multiple players of said game apparatus.

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9. A method as recited in claim 8 wherein when said tournament game is selected by said player, said player does not receive said prize credits.

10 A method as recited in claim 7 wherein said providing a game includes providing a specific prize goal during said game that may be achieved by skill of said player, and wherein if said specific prize goal is achieved, said player receives a specific prize.

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11. A method as recited in claim 10 wherein said providing a game includes providing a specific prize to said player based on a random determination.

12. A method as recited in claim 10 wherein said specific prize is determined using a prize table listing specific prizes that can be won by a player when said specific prize goal is achieved.

13. A method as recited in claim 7 wherein said game apparatus is included in a system comprising a plurality of game apparatuses coupled together such that players of said plurality of game apparatuses may all choose prizes from a prize database communicated to said plurality of game apparatuses.

14. A method as recited in claim 13 wherein said plurality of game apparatuses communicate with a server which includes said prize database.

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15. A method as recited in claim 7 further comprising a step of checking whether a progressive goal was achieved by said player using skill in said game, such that if said progressive goal is achieved, progressive bonus prize credits are awarded to said player, said progressive bonus credits being contributed to by multiple players of said game apparatus.

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16. A method as recited in claim 2 wherein said selected prize is provided to said player by dispensing a specific prize ticket which describes said selected prize and which said player may redeem to receive said selected prize.

17. A method as recited in claim 2 wherein said selected prize is provided to said player by sending an indication of said selected prize to a prize provider such that said player may receive said selected prize from said prize provider.

18. A method as recited in claim 4 wherein said game is an action video game which provides a player with opportunities to utilize dexterity in increasing said game score.

19. A method as recited in claim 2 wherein said game is a card game in which said outcome of said game is, at least in part, randomly influenced.

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20. A method as recited in claim 7, wherein said player may store said number of prize credits to an account, said number of prize credits being available to said player at future uses of said game apparatus to use in selecting a prize.

21. A method as recited in claim 2 wherein said game apparatus is a bar top game provided at a bar, tavern, or restaurant environment.

22. A method as recited in claim 2 wherein said game apparatus is an electromechanical game provided at an arcade environment.

23. A method as recited in claim 2 wherein said game apparatus is a computer device provided at a home of a player.

24. A method as recited in claim 2 further comprising a step of displaying advertising or promotional information on said game apparatus, wherein said advertising information pertains to a prize displayed in said prize table.

25. A method as recited in claim 24 wherein said advertising or promotional information portrays a particular brand of product, wherein said particular brand of product is available as a prize in said prize table.

25. A method as recited in claim 2 further comprising a step of receiving prize input information from an operator prior to said game being played by said player, said prize input information indicating said prize costs of said prizes.

26. A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, said method comprising: displaying a prize table on a display;

receiving prize input which is stored on a storage medium and displayed in said prize table, said prize input characterizing a plurality of prizes that are to be available in said redemption system to players of said game apparatus;

receiving payout input from said operator which is stored on said storage medium, said payout input indicating a desired amount of payout that said operator wishes to provide back to said players of said game apparatus in terms of a monetary value of said plurality of prizes; and

automatically determining prize information for each of said plurality of prizes, said prize information determining how frequently said prizes are to be won by players of said game apparatus, wherein said prize information is determined in accordance with said desired amount of payout and is stored on said storage medium.

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27. A method as recited in claim 26 wherein said game apparatus receives monetary income from players in exchange for allowing use of said game apparatus

28. A method as recited in claim 27 wherein said prize input includes monetary costs of said prizes.

29. A method as recited in claim 28 wherein said prize information includes a prize cost for each of said plurality of prizes in terms of prize credits winnable by players playing a game on said game apparatus, wherein said prize cost is determined in accordance with said desired amount of payout and is stored on said storage medium.

30. A method as recited in claim 29 wherein said payout input includes a global payout percentage value indicating a desired percentage of said monetary income earned by said game apparatus that said operator wishes to provide back to players in the form of said prizes.

31. A method as recited in claim 30 wherein said phize costs are determined using an average number of prize credits awarded per game played on said game apparatus, wherein said average number of prize credits awarded per game is determined by recording and averaging prize credits won by players over multiple games played on said game apparatus.

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32. A method as recited in claim 30 wherein said list of prizes from said prize table is provided to said game apparatus to be displayed to said players, as a menu by said game apparatus, said menu allowing said players to select a prize from said menu after winning at least one prize credit by playing a game on said game apparatus

33. A method as recited in claim 28 wherein each of said prizes can be won as a specific prize on said game apparatus, and wherein said prize information includes a win ratio for each of said plurality of prizes in terms of how many times said particular prize

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is won as a specific prize on said game apparatus, wherein said win ratio is determined in accordance with said desired amount of payout and is stored on said storage medium.

34. A method as recited in claim 33 wherein a prize is won as a specific prize 5 when a player achieves a specific prize goal on said game apparatus, said specific prize goal being achieved by skill of said player.

35. A method as recited in claim 34 wherein said payout input includes a global win percentage value indicating a desired percentage of said monetary income earned by said game apparatus that said operator wishes to provide back to players in the form of said specific prizes.

36. A method as recited in claim 33 wherein a prize is won as a specific prize when a specific prize goal is achieved on said game apparatus, said specific prize goal being achieved by random chance.

37. A method as recited in claim 28 wherein said prize input is received manually from said operator.

38. A method as recited in claim 28 wherein said prize table is displayed by a computer apparatus which includes said storage medium, and wherein said prize input is received from a remote apparatus linked to said computer apparatus.

39. A method as recited in claim 28 wherein said display is included in said game 5 apparatus such that said prize table is displayed on said game apparatus, and wherein said storage medium is included as a storage device in said game apparatus.

40. A method as recited in claim 28 wherein said prize input includes text or pictorial information describing said prizes.

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41. A method as recited in claim 27 wherein said operator may manually adjust said prize information to provide a desired amount of said payout.

42. A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, said method comprising: receiving a prize list on a game apparatus, said prize list including a names of a

plurality of prizes available to be won by playing said game apparatus, wherein said game apparatus receives monetary income from players in exchange for use of said game

apparatus, and wherein said players may win prize credits by playing said game apparatus;

receiving a cost of each of said prizes on said game apparatus; and

determining on said game apparatus a prize cost to be associated with each of said plurality of prizes, said prize cost being in terms of prize credits and determined in view of a desired profitability of said game apparatus, and wherein a player of said game apparatus may select one of said prizes by exchanging a number of prize credits equal to said prize cost of said selected prize.

43. A method as recited in claim #2 further comprising receiving a global payout percentage on said game apparatus, said global payout percentage indicating a percentage of said monetary income earned by said game apparatus that is to be used in providing said prizes to said players, and wherein said prize cost is determined such that said payout percentage may be approximately achieved.

A4. A method as recited in claim A3 wherein said prize cost is determined using an average number of prize credits awarded per game played on said game apparatus, wherein said average number of prize credits awarded per game is determined by recording and averaging prize credits won by players over multiple games played on said game apparatus.

45. A method as recited in claim 43 wherein said game apparatus offers specific prizes to players when a specific prize goal is met, and further comprising receiving a global specific prize win percentage on said game apparatus, said global win percentage indicating a percentage of said monetary income earned by said game apparatus that is to be used in providing said specific prizes to said players.

46. A method as recited in claim 45 further comprising determining on said game apparatus a specific prize individual ratio associated with each of said prizes, said individual ratio how frequently said associated prize is to be awarded as a specific prize when said specific prize goal is met.

47. A method as recited in claim 46 wherein more valuable prizes in said prize table are first checked when awarding said specific prize.

48. A method as recited in claim 46 wherein said specific prize individual ration is modified by a normalization factor based on a frequency of players achieving said specific prize goal.

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A9. A method as recited in claim A8 wherein said specific prize individual ratio is determined using a hit ratio describing how many times, on average, a specific prize is won on said game apparatus, wherein said hit ratio is determined by recording and averaging occurrences of players winning specific prizes over multiple games on said game apparatus.

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50. A method as recited in claim 45 wherein said prize list, said cost of each of said prizes, said payout percentage, said win percentage, said prize cost, and said specific prize individual ratios are displayed on a display screen of said game apparatus.

51. A method as recited in 54 wherein said prize cost may be manually adjusted by said operator, such that said global payout percentage is adjusted by said redemption system based on said manual adjustments.

52. A method for providing a prize redemption system for a game apparatus, said prize redemption system being customizable by an operator, the method comprising:

displaying a prize table on a display of said game apparatus;

receiving prize input from said operator which is stored on a storage medium of said game apparatus and displayed in said prize table, said prize input describing a plurality of prizes that are to be available in said redemption system to players of said game apparatus, wherein said game apparatus receives monetary income from players in exchange for use of said game apparatus;

receiving payout input from said operator which is stored on said storage medium, said payout input indicating a desired amount of payout that said operator wishes to provide back to players of said game apparatus in terms of a monetary value of said plurality of prizes;

determining a prize cost for each of said plurality of prizes in terms of said prize credits winnable by playing a game on said game apparatus, wherein said prize cost is determined in accordance with said desired amount of payout and is stored in said storage medium;

receiving monetary input from a player on said game apparatus;

implementing a game process and receiving input from said player during said game process, wherein said player is provided with a game score based on an outcome of said game process, wherein said player is provided with a number of prize credits based on said game score;

displaying a prize selection screen on said display, said prize selection screen portraying a plurality of prizes and a prize cost for each of said prizes;

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receiving a selection from said player selecting at least one of said prizes, wherein said selected prize has a prize cost less than or equal to said number of prize credits provided to said player; and

dispensing a physical indication of said selected prize to said player, wherein said player is able to redeem at least one of said prizes with said dispensed indication.

12 53. A method as recited in claim 52 wherein said prize table is downloaded from a remote server coupled to said game apparatus.

16 1754. A method as recited in claim 53 wherein said remote server is coupled to said game apparatus using a local area network or a wide area network.

18 /5 . A method as recited in claim 52 further comprising a step of displaying advertising information on said game apparatus, said advertising information portraying a brand or a product having said brand, wherein a prize having said brand is displayed on said prize selection screen and may be selected as a prize by said player.

1956. A method as recited in claim 55 wherein said prize having said brand is a discount on a price of said advertised product when purchasing said advertised product, wherein said dispensed physical indication is a coupon indicating said price discount.

 $3^{2}$  S7. A method as recited in claim  $5^{2}$  wherein said selected prize includes an exchange of said prize credits for game credits so that said player may play additional games on said game apparatus.

58. A game apparatus providing a prize redemption system, the game apparatus comprising:

a game processor for controlling a game on said game apparatus, said game providing a number of prize credits to a player in connection with said player playing said game;

receiving means for receiving monetary input from said player, said receiving means being coupled to said game processor;

an input device coupled to said game processor and providing commands to said game from said player;

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an output display device coupled to said game processor for providing visual feedback for said game;

means for providing a prize selection menu on said display device, said prize selection menu presenting a plurality of prizes, each of said prizes having a prize credit cost which has been determined in accordance with a desired payout value of an operator

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of said game apparatus, wherein said player selects one of said prizes using said input device, said selected prize having a prize credit cost less than or equal to said prize credits awarded to said player; and

a prize output device coupled to said game processor for outputting an indication of said selected prize to said player such that said player may use said indication to redeem said selected prize.

22 .59. A game apparatus as recited in claim 58 wherein said game is a game of skill.

60. A game apparatus as recited in claim 58 wherein said desired payout value of said operator is a percentage of all monetary input received by said game apparatus that said operator desires to give back to said players in terms of prizes.

24 25 .61. A game apparatus as recited in claim 60 wherein said prize credits are determined based on a game score resulting from said game.

 $\frac{24}{62}$ . A game apparatus as recited in claim 60 further comprising means for selecting a prize credit game for receiving said prize credits based on said game score, and means for selecting a tournament game for competing in a tournament with other players of said game apparatus for a tournament prize.

63. A game apparatus as recited in claim 60 wherein said prize output device is a dispenser capable of dispensing a specific prize ticket portraying said prize selected by said player.

29  $2^{4}$ 64. A game apparatus as recited in claim 60 wherein said prize output device writes electronic data on a storage medium that said player may remove from said game apparatus, said electronic data indicating said selected prize.

29 . A game apparatus as recited in claim 60 further comprising a universal ticket dispenser for dispensing a plurality of universal tickets equal to said number of prize credits.

30 21 .66. A game apparatus as recited in claim 58 wherein said game apparatus is provided in a bar or a restaurant gaming environment.

31 -67. A game apparatus as recited in claim 58 wherein said receiving means includes a coin slot.

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32 68. A game apparatus as recited in claim 58 wherein said game apparatus is included in a networked game system having a plurality of said game apparatuses and a server, and wherein said game apparatuses and server are linked using a local area network or a wide area network.

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A method for providing a tournament game on a game apparatus, the method comprising:

(a) providing a tournament game for a player on said game apparatus;

10 (b) receiving monetary input from a player to allow said player to participate in said tournament by playing said tournament game;

(c) contributing at least a portion of said monetary input towards a tournament prize;

(d) implementing said tournament game, including receiving input from said player during said tournament game, and providing a game score based on an outcome of said tournament game;

(e) repeating steps (a) through (d) until said tournament is determined to have concluded;

(f) providing said tournament prize to one or more winning players selected from said participants of said tournament.

70. A method as recited in claim 69 wherein said providing a tournament game includes offering a player a choice to participate in said tournament or to play a game on said game apparatus and not participate in said tournament.

71. A method as recited in claim 69 wherein said player is allowed to participate in said tournament only after playing a predetermined number of non-tournament games on said game apparatus.

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H. A method as recited in claim of wherein said tournament prize is in a form of prize credits awarded to said winning players, wherein a prize can be selected by a winning player using said prize credits.

28 34 73. A method as recited in claim 69 wherein said prize is selected by said winning player using a menu presented on said game apparatus.

34. A method as recited in claim 69 wherein said tournament prize is cash, and wherein said at least a portion of said monetary input is directly added to said tournament prize.

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3939. 35. A method as recited in claim 34 wherein said tournament prize includes a seed monetary value to which said contributed portions of monetary input are added.

 $\mathcal{H}_{\mathcal{A}6}$ . A method as recited in claim  $\mathcal{A}4$  wherein said tournament is determined to have concluded after a predetermined time period has elapsed.

37 *A* method as recited in claim *A* wherein said winning players are selected as a predetermined number of participants in said tournament who have achieved the highest game scores in said tournament.

3478. A method as recited in claim 69 wherein a plurality of tournament games are provided on said game apparatus, and wherein said player can select a particular tournament game in which to participate.

44 79. A method as recited in claim 69 further comprising a plurality of said game apparatuses linked together such that players of any of said linked game apparatuses may participate in said tournament by playing a tournament game on any of said linked game apparatuses.

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## ABSTRACT OF THE DISCLOSURE

The present invention provides a prize redemption system for use with one or more game apparatuses. A game is provided on a game apparatus for a player to play in exchange for monetary input, and prize credits are credited to the player based on the game outcome. A prize selection menu is then displayed by the game apparatus, the menu including one or more prizes, where the player may select a prize that has a prize cost within the player's prize credit amount. The player is dispensed a specific prize ticket that is redeemable for the selected prize. The game apparatus can also provide specific prizes and tournament games played for a tournament prize contributed to by multiple players. An operator can adjust prizes and payout percentages of the system to achieve a desired profitability for game apparatuses. Prize input is entered into a prize table describing multiple available prizes and also describing payout information that indicates a desired amount of payout that the operator wishes to provide back to players of the game apparatus in terms of the value of the prizes. Prize information, such as prize costs and specific prize win ratios, is automatically determined by the system for each of the prizes in view of the desired profitability of the game apparatus.

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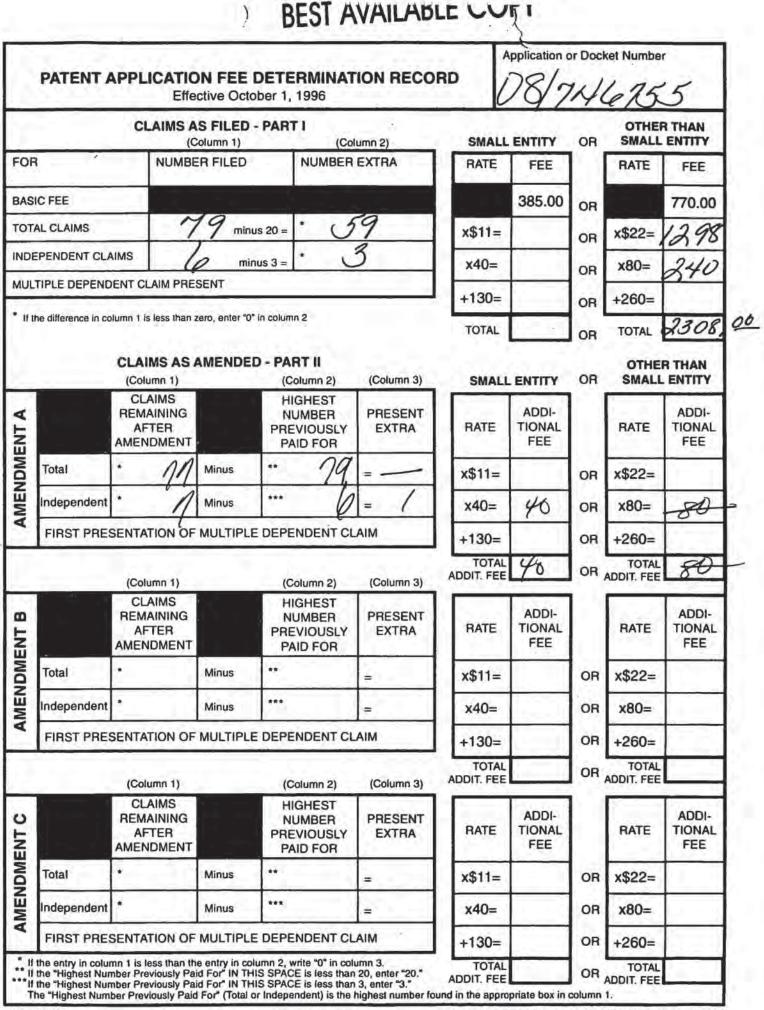


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