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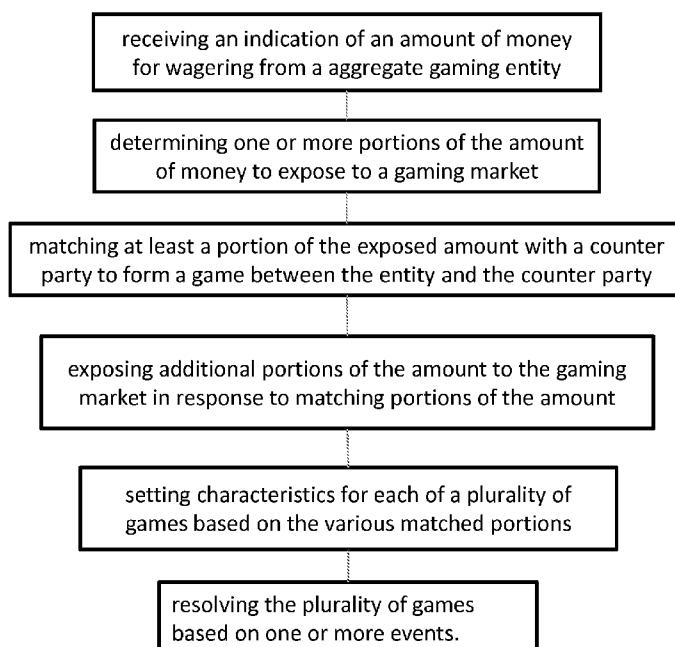


Figure 1

(57) **Abstract:** Some embodiments include a fantasy sports games or other type of gaming options. A gaming entity may establish a fund of money that is to be exposed to a gaming market in an attempt to win money from risking the fund of money. A gaming operator may use the pool or fund to create liquidity in a gaming market. Various gamers may enter into games with the gaming entity by matching with various portions of the pool or fund.

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AGGREGATE GAMING FUNDS

Field

Some embodiments may relate to sport events, games based on actions of players in live
5 sport events, other types of events, and/or other types of games and/or wagers.

Background

Gaming may include placing a wager and/or participating in a game related to an event in which money may be won if the event does or does not happen. Fantasy sports may include one or more games related to events taking place in real sports games.

10 Brief Description of the Figures

Figure 1 shows an example method that may be used in some embodiments.

Figure 2 shows an example system that may be used in some embodiments.

Summary

The following should be understood to be embodiments, not claims.

15 A. An apparatus comprising: a processor; and a non-transitory medium having stored thereon a plurality of instructions that when executed by the processor cause the apparatus to: receive an indication of an amount of money from a gaming entity; determine one or more portions of the amount of money to expose to a gaming market on behalf of the gaming entity; expose the one or more portions to the gaming market; match at least one portion of the exposed amount with at least one counter party to form at least one game between the entity and at least one counter party; determine one or more additional portions of the amount to expose to the gaming market based on matching the at least one portion expose the one or more additional portions of the amount to the gaming market in response to matching the at least one portion; set characteristics for the at least one game between the entity and the at least one counter party; and 20 resolve the at least one game.

25

A.1. The apparatus of claim A, in which the one or more portions include a plurality of portions that sum to less than the amount of money. A.2. The apparatus of claim A, in which

determining the one or more portions includes determining the one or more portions based on historical demand for games such that the portions are expected to meet expected demand. A.3. The apparatus of claim A, in which the gaming entity includes at least one of an algorithmic gaming entity, a hedge fund, and a mutual fund. A.4. The apparatus of claim A, in which the 5 counter party includes a natural gamer.

A.5. The apparatus of claim A, in which exposing the one or more portions includes creating new fantasy sports leagues with a gaming operator that may be joined by other gamers.

A.5.1. The apparatus of claim A.5, in which matching the at least one portion includes: receiving a request from the counter party to join a first league of the fantasy sports leagues and entering 10 the counter party into the league to form the game. A.6. The apparatus of claim A, in which the apparatus includes a device of a gaming operator that forms games involving users in fantasy leagues. A.7. The apparatus of claim A, in which determining the one or more additional portions includes determining one or more replacement portions for the at least one portion. A.7.1. The apparatus of claim A.7, in which the one or more replacement portions are 15 determining based on demand for gaming such that changing demand is expected to be met by the replacement portions.

A.8. The apparatus of claim A, in which the game includes a fantasy sports game and the characteristics include teams for each of the counter party and the gaming entity. A.8.1. The apparatus of claim A.8, in which the instructions cause the apparatus to: receive a first team from 20 the gamer and a second team from the gaming entity; and set the characteristics to match the first team and second team. A.8.1.1. The apparatus of claim A.8.1, in which the characteristics include a spread between the first team and the second team and in which the instructions cause the apparatus to: determine a first sum of expected point value to be earned by a members of the first team and a second sum of expected point value to be earned by members of the second 25 team; and determine the difference between the first sum and the second sum. A.8.1.1.1. The apparatus of claim A.8.1.1, in which each expected point value of each member is skewed down from a true expected value.

A.9. The apparatus of claim A, in which resolving the game includes determining an outcome for the game based on one or more events and adjusting one or more monetary accounts 30 in response. A.10. The apparatus of claim A, in which the at least one portion includes a plurality

of portions that are matched with respective counter interests from respective gamers to form respective games so that the gaming entity is entered into a plurality of respective games with a plurality of respective gamers. A.10.1. The apparatus of claim A.10, in which setting the characteristics for the at least one game includes setting characteristics for the plurality of 5 respective games. A.10.1.1. The apparatus of claim A.10.1, in which each of the games of the plurality of respective games includes a fantasy sports game and in which the instructions cause the apparatus to receive a fantasy team from the gaming entity to be used for all of the plurality of games, in which the fantasy team is received as a single command from the entity to assign the team to all of the plurality of games.

10 A.11. The apparatus of claim A, in which the instructions cause the apparatus to: receive an indication of a second amount of money from the gaming entity; and expose at least one second portion of the second amount of money to the gaming market. A.11.1. The apparatus of claim A.11, in which the instructions cause the apparatus to: prevent a match between a portion of the amount of money and a portion of the second amount of money. A.11.2. The apparatus of 15 claim A.11, in which the instructions cause the apparatus to: assign the at least one portion to the amount of money based on relationship that the gaming entity defined between the amount of money to the second amount of money. A.11.2.1. The apparatus of claim A.11.2, in which the relationship defines a ratio for matching gamers to the amount and the second amount. A.11.2.2. The apparatus of claim A.11.2, in which the instructions cause the apparatus to match the second portion to form a game between a second gamer and the gaming entity; and set characteristics to be different for the second game than the first game. A.11.3. The apparatus of claim A.11, in which the amount is based on a first algorithm operated by the gaming entity and the second amount is based on a second algorithm operated by the gaming entity. A.12. The apparatus of claim A, in which determining the one or more portions includes determining the portions to 20 simulate a Dutch auction in which larger portions are exposed before smaller portions.

25 B. A method comprising: receiving, by a computing device of a gaming operator, an indication of an amount of money from a gaming entity; determining, by the computing device, one or more portions of the amount of money to expose to a gaming market on behalf of the gaming entity; exposing, by the computing device, the one or more portions to the gaming market; matching, by the computing device, at least one portion of the exposed amount with at

least one counter party to form at least one game between the entity and at least one counter party; determining, by the computing device, one or more additional portions of the amount to expose to the gaming market based on matching the at least one portion; exposing, by the computing device, the one or more additional portions of the amount to the gaming market in response to matching the at least one portion; setting, by the computing device, characteristics for the at least one game between the entity and the at least one counter party; and resolving, by the computing device, the at least one game.

Detailed Description

10 I. Example Embodiments

Some embodiments may facilitate a gaming entity's placement of large block of funds into a gaming market. For example, a hedge fund, mutual fund, fund manager of some sort, and/or some other entity may desire to risk a relatively large amount of money in a gaming market based on the occurrence of one or more events. For example, such an entity may desire to 15 participate in a fantasy gaming market, a sports gaming environment, a casino wagering market, and/or any other type of gaming market. Such an entity may act as a professional manager or investor of funds, a block gamer, a liquidity provider, and/or any other participant in a gaming market.

Colloquially, gaming may be referred to as wagering but it should be understood that 20 embodiments are not limited to the statutory definition of wagering that is limited to games of chance but rather may include games of skill, fantasy games, games of chance, and/or any other type of games and therefore the term gaming is used when discussing some embodiments rather than the term wagering. Gaming may include a risk of an amount of money that some event will happen. Such risk may be skill and/or risk based, booked and/or pari-mutuel, and/or take any 25 form desired. Gaming may include paying a fee to enter into a contest that is based on the occurrence of an event. The winner of such a contest may be provided with an award (e.g., money based on a sum of contest entry fees). Wagering may be used herein to refer to such skill or risk based gaming in some instances and should not be understood to be limited to one or the other type of gaming unless specified otherwise. Gaming may include wagering, betting, risking

money, paying an entry fee to a contest, and/or any other form of gaming as desired. Various embodiments may apply to any type of gaming in any combination and/or arrangement.

To facilitate the placement of money into the gaming market, the gaming operator may present portions of the money to a gaming market for the event. Other counter parties may enter 5 into games with the entity for these portions. Additional portions may be presented to the market as such games are formed so that the entire amount may be entered into the market through such sub-games. Some embodiments may include various methods of facilitating such large block gaming. Some embodiments may include various methods for allowing gamers to pool funds and/or otherwise assign funds for professional management.

10

Fantasy Game Examples

In some embodiments, a game may be a fantasy game. It should be recognized that 15 embodiments are not limited to fantasy games but that examples are given in terms of a fantasy game in a non-limiting manner. Moreover, examples of fantasy games and operation are also given in a non-limiting manner and other embodiments may include any fantasy or non-fantasy game or event on which a wager is placed as desired. U.S. patent applications 61/479,539, 12/605,826, 13/160,746 and 61/668,245 are hereby incorporated herein by reference. Some example fantasy games and/or wagers that may be used in some embodiments are described in these references.

20 Various examples are given in relation to a popular variation of fantasy events, namely fantasy sports, but it should be understood that various embodiments may include any fantasy event. In some embodiments, fantasy sports may provide a manner for a participant to act in a role similar to a coach and/or general manager. In some embodiments, a participant may be given the ability to draft, create, trade, dismiss and/or otherwise manage a fantasy team.

25 The events, participants, and/or players to which a fantasy event may be related may include any desired events, participants, and/or players. For example, some events may include political events (e.g., elections), sporting events (e.g., football, baseball, basketball, hockey, soccer, rugby, golf, tennis, automotive racing, animal racing), competitions (poker, test taking, rock throwing, tree growing), other events, and so on. For example, some participants and/or 30 players may include politicians, human players, animal participants, robots, natural phenomena,

plants, physical things, and so on. It should be recognized that fantasy event competitions may be constructed based on any kind of activity. For example, fantasy competitions may be constructed based on an activity in which participants in the fantasy competition may compete vicariously based upon observations or statistics regarding some underlying activity (e.g., wind speed, elections, tree growth, baseball, and so on).

5 A team should be understood to include a club (e.g., soccer club), an individual in a one or more sport, one or more individuals in one or more events, and/or other variations of similar concepts. A fantasy team for an activity may include one or more members that each correspond to one or more respective real and/or active participants in the activity. For example, a fantasy team for a sport may include one or more players of the sport. The players may include active players in a real league for the sport. The players may include active league players from one or more real sports league.

10 In some embodiments, a member of a team may include a portion of a real team. For example, in some embodiments, in addition to and/or as an alternative to a particular member of a team being selected for a fantasy team, a portion of a team may be selected for a fantasy team. For example, a defensive team of a football team may be selected for a fantasy team regardless of actual members of the defensive team. Accordingly, scoring of such a fantasy team may relate to actions and/or performance of the entire defensive team rather than a single member of the team.

15 20 In some embodiments, a participant in a fantasy sports game may select members to form a fantasy team for a sport. In some embodiments, a participant may select or "draft", currently active real-life players to form a fantasy team. Accordingly, a fantasy team for a sport may include a plurality of members that each correspond to a respective player of the sport. In some embodiments, a selected member for a fantasy team may include a group of players (e.g., the defense of a particular football team may be a member of a fantasy team, the outfield of a particular baseball team may be a member of a fantasy team, and so on).

25 30 In some embodiments a plurality of participants may form a fantasy league and select players in the fantasy league. Each player in the league may pay a fee to join the league. The fee may be pooled by a gaming operator for use in award payment, booked by the gaming operator as a wager, and/or paid to the gaming operator as a fee. The fantasy league may be referred to as

a fantasy game, and the winning participant in the league may receive some award (e.g., from the gaming operator, from pooled funds held by the gaming operator, based on a fee paid to join the league, etc.). As an example, in a fantasy football league, a plurality of league participants (e.g., two) may each select one or more professional football players (e.g., 5) onto their fantasy team 5 and pay a fee to be part of the league (e.g., \$10). Based on performance of those selected players in real sports events, the participants may earn points in the fantasy sports league and a winner may be determined and paid an award (e.g., \$20 minus some rake taken by the gaming operator).

It should be recognized that the form of risk and/or relationship between and/or among the parties to such a game and/or a gaming operator may take any form. Terms such as form a 10 game are used in a broad sense to refer to any such form. For example, a wager may be established directly between two participants, a contractual obligation may be established between a gaming operator and each of the participants separately, a pari-mutuel pool may be established into which money may be placed, a book of bets may be formed into which money may be placed, and/or any desired method of forming a game may be used. In some 15 embodiments, to form a game, each participant in a game may pay a contest entry fee to enter the contest. Such fees may be pooled together and used to pay a winner. A data structure may record information regarding formed games, and/or other information about gamers and/or games.

In some embodiments, a central authority (e.g., a gaming operator) may establish and/or enforce rules for a fantasy sports game. Such a central authority may include a casino, a server, 20 a house, a book maker, a web site, and/or any other desired gaming operator. Such a central authority may be referred to as a commissioner, and/or a treasurer. In some embodiments, multiple entities may operate as separate parts of such a central authority (e.g., one treasurer and one commissioner). In some embodiments, the central authority may be configured to determine outcomes of a game, accept wagers, adjust balances, accept money, determine if a game 25 condition is satisfy, establish leagues, maintain accounts, pay winnings, perform a method to facilitate functionality described herein, and so on. A central authority may include one or more computing devices (e.g., servers, processors, mobile devices, and so on) configured to perform one or more actions in order to facilitate gaming.

One example of a game that may be used in some embodiments may include a Cantor 5 30 (or Cantor any number) game that may be offered by Cantor Gaming and/or Cantor Data

Services. In such a game, a league may be opened (e.g., by player and/or operator). Some non-limiting examples are given in terms of a 2 person league, but a league may be any number of users (e.g., 2, 5, 10, etc.). When a league is full (e.g., players equal to the maximum number have joined), the league may be closed and a game may be formed between/among the players that joined the league. So, for example, a user may desire to play a \$50 dollar Cantor 5 game and so may form a two person Cantor 5 league with a \$50 buy-in (e.g., risked amount, contest entry fee) by entering information through a website. A second user may see the formed league through the website and may join the league. At that point, the players may be entered into a \$50 game with one another. Cantor may take a cut of the buy-ins for offering the fantasy service and may use the rest of the buy-ins to pay an award to a winner of the game. Cantor may pool the buy-ins into a pool that may be used to provide a winner some award.

At some point before a start of a game and/or some other closing trigger, each player may be required to select members for their fantasy team. Members may be chosen in any manner (e.g., round robin, individually, and so on). In some embodiments, each player may independently choose a team so that a team of one player does not affect a team of another player and that each player may have some or all same players on their team. A gaming operator (e.g., Cantor) may set an expected point total for each team (e.g. based on historical performance of each player on the team). To set such an expected point total Cantor may intentionally skew the number lower to encourage players to choose higher performing players. Based on the assigned expected value of each team, a spread may be created between the team. For example, if team A is expected to earn 95 points and team B is expected to earn 97 points, then a 2 point spread between the teams may be formed. A winner may be determined for the game based on the play of real games so that if Team B, for example, wins by more than two points, team B is the winning team because it beat the spread.

It should be recognized that this example is only one non-limiting example and that any manner of fantasy gaming and/or or other gaming/wagering may be used as desired.

Example Methods

Figure 1 illustrates an example method that may be performed in some embodiments to facilitate block gaming and/or any pooled gaming functions such as some described herein. The

example method may be performed by a gaming operator, a gaming entity, a counter party to the gaming entity, a third party, another entity, and/or any combination thereof. In some embodiments, such a method may be performed by a computing device (e.g., a server of a gaming operator). Such a computing device may communicate with other computing devices 5 (e.g., user devices, algorithmic wagering devices, etc.) such as through a user interface and/or API that allows gaming information to be entered and/or information about games to be communicated.

As indicated at 101, some embodiments may include receiving an indication of an amount of money for gaming from a gaming entity. Receiving such an indication may include 10 receiving an indication of an amount to be risked in a gaming market with an ability to have a hidden amount (e.g., a hidden order size for a gaming market). Receiving such an indication may include receiving an indication of an amount that may be treated similar to a large block trading order in which parts of the order are worked separately to fulfill the whole order. Such an indication may be received through an API from a algorithmic gaming device by a gaming 15 operator. Receiving may include receiving various characteristics that define one or more desired games and/or a sum of money risked in such games (e.g., wagers, fantasy games, sports bets). For example, an amount of money, how the money should be presented, a team for one or more games, how the amount should be used in relation to another amount, and/or any desired information may be received.

As indicated at 103, some embodiments may include determining one or more portions of 20 the amount of money to expose to a gaming market. For example, a gaming operator may determine an expected demand for games of one or more sizes and in response may expose corresponding amounts of money to the gaming market (e.g., by offering games of such one or more denominations). Demand may be based on historical demand, current demand, and/or any 25 other information. Any desired information may be used to determine an amount and/or a composition of games that sum to that amount (e.g., demand, instructions from the gaming entity, request from players, etc.) Exposing to the market may include offering one or more games for that amount of money and/or that sum to that amount of money in any combination of denominations (e.g., opening fantasy leagues and/or joining fantasy leagues with such buy-in

amount(s)). An exposed amount may include an amount or sum of sub-amounts that may be accepted by other users to form a game. In some embodiments, a plurality of sub-amounts may be determined so that a variety of games is available to the public. For example, a large amount may be too large for some people but a small amount may be too small for some people, so 5 multiple amounts may be exposed to give other gamers options depending on their budgets. In some embodiments, the sum of the offered multiple amounts may be less than or equal to the amount of money (and/or some sum of various amounts of money in embodiments where multiple blocks may be worked together) so that the gaming entity does not become over exposed beyond the amount of money that they desire to risk on the event.

10 Some embodiments may include exposing the amount of money in any combination of one or more games. Exposing may include joining a game that exists already and/or offering a game to other gamers. For example a league may be entered into and/or created using a respective portion amount, a wager exchange order may be entered, a wager may be placed with a casino, a wager may be laid, and/or any other action may be taken to expose an amount of 15 money to a gaming market.

As indicated at 105, some embodiments may include matching at least a portion of the exposed amount with a counter party to form a game between the entity and the counter party. For example, an indication of a desire to join a league based on the at least the portion may be received from a counter-party (e.g., another gamer that desires to join a fantasy league, enter into 20 a wager with the entity, etc.). Such a receipt of such an indication may include receiving an indication that the counter party desires to join the formed league through an interface of a website. It should be recognized that this example is non-limiting and that other methods of matching or determining matches may be used (e.g., exchange wagering, other non-league posting of gaming options such as a direct posting of wagers in an interface, etc.)

25 As indicated at 107, some embodiments may include exposing additional portions of the amount to the gaming market in response to matching portions of the amount. For example, a portion may be replaced with a new exposed portion each time a portion is matched. This matching and exposing may continue until the amount of money has been reached and/or an end time for joining a game on the event has been reached. A total exposure may be kept less than or

equal to the amount of money and/or a sum of amount of money in embodiments where separate pools of money are worked together. In some embodiments, the portions exposed may be adjusted over time to meet a perceived need or desire. For example, high rollers may come in to the market as the event nears and so larger portions may be exposed over time to attract such 5 high rollers. In some embodiments, the portions may be exposed to simulate activity in the gaming market for the event so that as the event draws near people become more excited about the event (e.g., by exposing and unexposing portions and/or increasing and decreasing the amount exposed to simulate activity in the market). At the end of such activity, multiple games may be formed involving the entity and various counter-parties that may sum to the amount of 10 money or less than that amount (or greater in embodiments where multiple pools are worked together as is discussed elsewhere herein).

Forming of such games may take any form as discussed elsewhere. For example, a contractual agreement (e.g., a contract, a wager, etc.) may be entered into between each party and the entity. Such an agreement may obligate a loser to pay or allow a winner in each game to 15 take some amount of money (e.g., a buy-in, a risked amount). As another example, a contractual agreement may be entered into between each party and the gaming operator and the gaming entity and the gaming operator. Such an agreement may obligate a gaming operator to pay a winning entity some amount of money in each game (e.g., a buy-in amount, a risked amount). A gaming operator may take some fee to facilitate such services (e.g., from the buy-in or risked 20 amounts). As another example, a contest entry fee may be paid (e.g., transferred from an account to a pool) to form a game. One or more data structure entries may be made to indicate a formation of a game so that information about the game may be tracked. It should be recognized that any manner of forming a game (whether a wager or other type of game in which money may be risked) may be used in various embodiments and that various methods of doing so are known 25 in the art.

As indicated at 109, some embodiments may include setting characteristics for each of a plurality of games based on the various matched portions. In some embodiment, the games may be fantasy games and/or other types of games or wagers that require some element to be set. For example, the team for each of the counter-parties and the gaming entity in each fantasy game

may be required to be set after a league is formed. A gaming operator may allow a party to each of the games to enter the team at some time between the event and the forming of the league (e.g., up until the end of start of an event on which a game is based).

In some embodiments, a gaming entity may set all of the teams for the various games 5 based on the various portions of the amount together to a single team by submitting a single command. A gaming operator may receive the command, and in response set all of the teams in the multiple games. By allowing a gaming entity to submit a single command to set all of such teams, the transmission time and/or latency may be minimized compared to a traditional environment in which each game may be required to have a team set separately. This type of 10 single command may work well in embodiments where duplication in teams may be allowed because the entity's team may not depend on a counter party's team. Accordingly, such a single team may provide the gaming entity with a longer time period to obtain information and decide on a team (e.g., a time period with less latency or other transmission delays). In other 15 embodiments, no such duplication may be allowed so that the entity may be required to select teams for each game that may be dependent on how the other player(s) in the league pick team(s) and so may be done individually or according to some algorithm based on the other player's actions.

As indicated at 111, some embodiments include resolving the plurality of games based on one or more events. For example, an outcome of one or more games, a performance of one or 20 more players, and so on may be determined by a gaming operator. According to a definition of a fantasy game or other game/wager, the information may be used to determine the outcome of each of the games. The winner of each wager may be paid according to the rules of the game. Various examples of games are well known in the art and/or described herein and one of 25 ordinary skill in the art would understand how to determine a winner of such games and resolve such games.

In some embodiments, an entity that submits an amount for gaming such as at block 101 may include an algorithmic gaming entity. Such an entity may use sophisticated data processing technology to determine an amount of money to be risked and/or one or more characteristics of a game (e.g., team in a fantasy game). Such an entity may include a hedge fund or quantitative /

high speed trading entity. The algorithm could interact with an API of a gaming operator to submit information about the games and/or amounts. The algorithm could operate on a computer system and communicate over a network to a computer system run by the gaming operator.

In some embodiments, multiple algorithms may be submitted to a gaming operator. Such 5 algorithms could compete against each other such as in a trading environment in which multiple algorithmic traders engage in trading behavior against one another. In some embodiments a single entity could submit game information through multiple algorithms so that they do not compete with one another.

In some embodiment, an algorithmic gaming entity could only be allowed to or could 10 only be used to form new leagues or otherwise offer new games (e.g., offer wagers).

Accordingly, by not entering into existing games, the algorithmic gaming entity would not enter into games with itself. In some embodiments, an algorithmic gaming entity could both form new games and enter into existing games. In such an embodiment, an entity may still be prevented 15 from entering into a game with itself by a gaming operator monitoring originators/members of games and preventing such an entity to itself enter into a game that it formed and/or has already joined.

In some embodiments, in which a single entity uses multiple algorithms for gaming, a ratio of exposure or fill between algorithms may be established. For example, a first algorithm and second algorithm may be filled or exposed in a pro-rata fashion, 3 to 1 ratio, a first in first 20 out manner, etc. For example exposure may take place so that the amount of money that has been exposed from each algorithm follows the desired method of exposure. As another example, filling may take place according to the desired method regardless of exposure (e.g., the exposed portions may not be tied to an algorithm until they are matched). For example, if a 1 to 1 ratios is supposed to be exposed then for each 500 in one algorithm exposed 500 in another could be 25 exposed. In an example in which the fill is desired in a 1 to 1 ratio, two 500s could be exposed (at the same time or sequentially) and the first matched and then assigned to algorithm 1 and then the second matched and based on the ratio matched to algorithm 2. A determination of which algorithm to assign could be made in response to the match based on the ratio and the current state of fill of each amount.

5 In some embodiments, a gaming operator may be responsible for and/or have influence over determining portions to expose to a market. In other embodiments, an entity may submit commands on how to expose portions and the gaming operator may follow such instructions. In still other embodiments, the gaming entity may be responsible for submitting each new portion separately rather than as a block.

For example, in some embodiments, a gaming operator may indicate a preference for matching and/or exposing larger portions of a block amount over smaller portions of a block amount. Accordingly, a larger portion may first be exposed over a smaller portion. In some embodiments, if both a larger portion and a smaller portion are matched, the smaller portion may 10 be ignored so that the larger portion may be matched. As another example, an entity may determine that it does not want to accept matches from certain gamers, at certain times of the day, below a certain size, above a certain size, above a certain number with a same entity, and so on. As another example, an auction system may be used in which game denominations (e.g. exposed amounts or portions) are adjusted over time (e.g., lowered) so that certain gamers are 15 given an earlier chance to enter into games over other gamers (e.g., high rollers over normal gamers). Accordingly, portions that are determined for exposure may be chosen to simulate a Dutch auction in which larger amounts are exposed before smaller amounts. It should be recognized that any manner of giving preference to forming and/or exposing one type of game or size of game may be used in various embodiments.

20 In some embodiments, rather than a hidden size type functionality as described with respect to some embodiments, a full size may be exposed and/or a size larger than the portions described above may be exposed. For example, a large amount of money may be exposed to the market but not tied to specific game portions. For example, \$10,000 may be exposed to the market as available for gaming in a particular type of game. The type of gaming may not be 25 limited to denominations (other than less than or equal to \$10,000). Such an exposed amount may be displayed to gamers through a user interface. Gamers may respond by entering game requests with respect to that exposed amount (e.g., entering into leagues). As part of the request for the amount, gamers may enter a portion that they desire to form a game with. For example, a first user may form a league with the entity for \$1000 and a second user may form a league for

\$500. In response to the gamers entering information about their desired games, the exposed amount may be reduced accordingly (e.g., in a first come first served fashion) until none is left. Such an embodiment may allow users to enter customized desired sizes up to the amount rather than responding to pre-set sizes as in some embodiments described herein.

5 In some embodiments, a gaming entity may influence a manner in which portions are matched to such an amount of money. For example, a gaming entity may accept the given first come first serve (also known as FIFO) matching method in some embodiments. In other embodiments, a gaming entity may establish a different matching algorithm. For example, such a different algorithm may include an algorithm that accounts for portion size, identity of user, 10 and/or any other characteristic. For example, an entity may indicate that it prefers to have larger portions matched over smaller portions, so a preference may be given to larger portions even if smaller portions are identified first. While this may be non-traditional matching, it may provide a greater ability for high-rollers to enter into desired games and also a greater chance of finding matches for the entire amount. In some embodiments, an auction method may be used to match a 15 gaming entity with counter parties (e.g., a Dutch auction). As another example, an entity may determine that it does not want to accept matches from certain gamers, at certain times of the day, below a certain size, above a certain size, above a certain number with a same entity, and so on.

It should be recognized that any manner of giving order or preference to one match over 20 another may be used in various embodiments as desired whether in a hidden order embodiments or a non-hidden order embodiment. Moreover, it should be recognized that while some embodiments are described as a gaming entity influencing such a matching method, other embodiments may include a gaming operator choosing and executing such matching functionality.

25 In some embodiments, an entity that enters games through a gaming operator (e.g., an entity that submits an amount of money to be worked as a block, a gamer, etc.) may be a fund through which users may invest money in gaming activity. For example, such an entity may include a mutual fund, a hedge fund, etc. this would allow users to enter money into the fund and get a possible return from gaming activity of the fund. Such a fund may be a private fund and/or

a public fund. Such a fund may be listed on an exchange and/or regulated by a securities regulating agency. In some embodiments, a fund may accept money from fund participant. A fund may invest the money in gaming activity (e.g., according to a prospectus and/or algorithm). The fund may also invest money in non-gaming activity such as stocks and bonds. In some 5 embodiments, a fund may sell shares of the fund to the public. In some embodiments, a fund may allow the public to redeem shares of the fund for an increase or decrease in value depending on the outcomes of activities (e.g., games such as fantasy games and/or wagers) made by the fund. In some embodiments, a share may amount to a portion of ownership in the fund or a pool of money managed by the fund. In some embodiments, users may trade shares on an exchange of 10 some sort to other user in secondary trading. Various embodiments may include any desired type of fund, shares trading, redeeming of investments, exchanges, and/or other functionality as desired in any combination.

In some embodiments, an entity that enters games through a gaming operator (e.g., an entity that submits an amount of money to be worked as a block, a gamer, etc.) may be a 15 professional fund manager. Such a manager may be a celebrity (e.g., a previous player of a sport). Users may give money to the fund manager for the manager to enter games. In response to entering the games, the fund manager may provide a return to the users (e.g., return the money plus winnings and/or minus losses). Such return may be on demand from the users and/or after some period of time has passed. The money may be pooled together with other users' money 20 and/or separately managed for each user.

In some embodiments, rather than placing money with a professional manager, a gamer may "subscribe" to the picks of such a professional manager. A gamer may identify that Celebrity A has a gaming style that he or she desires to emulate. The gamer may enter into one or more games (e.g., fantasy leagues) in accordance with that style of gaming. The elements of 25 the style that are emulated may include any desired characteristics of Celebrity A's gaming style (e.g., risked amount, team selection, taunting, amount of team adjusting before team must be set, time of entering into games, and so on). The gamer may identify the characteristics and/or a gaming operator may assign the characteristics in response to receiving an identification that the gamer desires to emulate Celebrity A. For example, in some embodiments, the gamer may then

enter into fantasy leagues or other games that are based on the risk of some amounts of money (e.g., amounts selected by the gamer and/or selected to emulate Celebrity A). The gamer's teams in such leagues may be selected for him or her to match a team selected by Celebrity A. Accordingly, the gamer may have given up choosing one component of his or her game and 5 outsourced it to Celebrity A. In some embodiments the gamer may adjust his or her team even though subscribed to Celebrity A so that his or her team may deviate from the Celebrity A team if he or she desires. In response to receiving a selection of a team (e.g., for a fantasy period such as a weekend, a week, a season) from Celebrity A, games that are assigned to emulate Celebrity A may be assigned to have that same team. Changes may be made by Celebrity A and may be 10 correspondingly made to the teams assigned to the emulating gamers. Celebrity A may charge a subscription fee for such a service.

In some embodiments, exposed amounts offered by such pooled and/or professional funds/mangers may be identified as being placed by a special entity through an interface when presented to counter parties (e.g., other gamers). Some gamers may not feel comfortable entering 15 into games with such entities and so may avoid that type of game and instead opt to game against natural gamers (e.g., non-professional gamers, natural people rather than funds). In some embodiments, a rebate or other incentive may be provided when a natural gamer enters into a wager with such a non-natural gamer. For example, the natural gamer (or the non-natural gamer in other embodiments) may be given some percentage of a rebate, a bettering of odds, and/or any 20 other incentive to enter into the wager. Such a rebate may be given in response to a determination that a game involves one or more natural gamers and one or more non-natural gamers.

It should be recognized that while various examples of embodiments have been given, that such embodiments are given as non-limiting examples only. Other embodiments may 25 include some, all, or none of such functionality and may be combined together in any manner with any other desired functionality or functionality described herein. For example, although some embodiments discuss fantasy gaming, it would be understood that other embodiments may include any type of gaming whether fantasy, sports book, regular casino wagering, exchange based wagering or any other form.

Example Systems

Figure 2 illustrates an example one or more systems that may be used to facilitate functionality of one or more embodiments. As indicated in figure 2, some embodiments may involve a gaming operator 201, a fund/professional entity 203, and a plurality of gamers 205A-C.

5 Gaming Operator 201 may include an entity that enables gaming functionality. For example Cantor Gaming and/or Cantor Data Services may be a gaming entity. A gaming entity may perform a method such as that of figure 1. A gaming entity may include one or more computing devices that may operate to perform such a method. For example, such a computing device may include a server that accepts game requests, forms games, resolves games, manages 10 games, manages accounts, and/or provides any desired gaming related functionality. A gaming entity may include a provider of cloud services (e.g., a provider of gaming services, pooling services, etc. to a cloud computing environment). Gaming operator 201 may provide any desired services such as an API, an interface, accounting services, odds setting services, outcome determination services, and so on. One or more data structures may be maintained by a gaming 15 operator to store information regarding games, fees, players, odds, historical outcomes, accounts, and so on.

20 Fund/professional entity 203 may include an entity that manages money for gaming and/or provides professional gaming services. For example, such an entity may include a hedge fund or high frequency trading company that includes gaming as a component of their investment strategy. A fund/professional entity may include one or more computing devices that may operate to engage in gaming through the gaming operator. For example, such a computing device may include a server that determines a gaming algorithm and communicates gaming desires with the gaming operator. Fund/professional entity may provide any desired services such as accounting services, money accepting services, share redemption services, share 25 exchanging services, and so on

 Gamers 205A-C may include entities that game through the gaming operator (e.g., natural gamers such as ordinary people, another fund/professional entity, and so on). For example, such gamers may include people that access a website or gaming application to enter

gaming information to the gaming operator. A gamer may include one or more computing devices that may operate to engage in gaming through the gaming operator. For example, such a computing device may include a mobile device or other client device that may provide an interface through which a gamer may enter gaming information to the gaming operator (e.g., 5 amount of money risked in a game, characteristics of a game).

As illustrated, some embodiments may include one or more communication networks that may allow gamers, gaming operator, and/or fund/professional entity to communicate among/between one another. Such a network may include the Internet, one or more LANs, and so on that may be arranged in any combination as desired. Information regarding games may be 10 communicated through such a network to facilitate functionality such as that described herein.

It should be recognized that the example system of figure 2 is given as a non-limiting example only. Various embodiments may include any desired system and/or components in any arrangement. For example, other embodiments may include a single gaming entity and fund/professional entity acting together rather than as separate entities. As another example, 15 other embodiments may include additional entities that provide some of the described functionality and/or additional functionality (e.g., auditing, accounting, data gathering, outcome determining, data sources, and so on). As another example, a gaming operator and/or fund/professional entity may be part of a cloud gaming service that provides functionality to gamers to engage in gaming. A separate account may be maintained elsewhere in such a cloud 20 and/or may be maintained specifically for the gaming operator. Accordingly, a user accessing the cloud may use funds from an account provider in some embodiments and/or be limited to using funds associated with the gaming operator depending on the arrangement of such an embodiment. Funds in the account provider for example may be funds associated with a portal through which the user accesses the cloud (e.g., a casino) that may make the funds available to a 25 plurality of gaming services that are attached to the cloud. Some embodiments may include one or more components of such a cloud service that may operate to provide gaming functionality.

Although various examples are given in terms of some special entity (e.g., a fund or professional) engaged in block gaming, it should be recognized that embodiments are not so limited. Any gaming participant may engage in such gaming in some embodiments. For example

such ability may be offered to all gamers in a gaming market in some embodiments. Such functionality may be offered with a minimum amount of money to be entered or with any amount of money.

5 **Cantor Fantasy Pooling Examples**

As a concrete example of one implementation, a Cantor five game is used. A fund identifies to a gaming operator that \$10,000 is available for gaming in a first algorithmic manner and \$5,000 is available for gaming in a second algorithmic manner and that a 2 to 1 ratio of matching to algorithmic manners should be used. The gaming operator may expose four leagues 10 based on the available funds: one for \$1,000, one for \$500, one for \$250, and one for \$125. Gamers may enter into each of these and replacements may be exposed as they do. For this example, only these four exposed leagues may be matched by the time a gaming window ends (e.g., an event begins and/or a time before the event becomes too short). To make the 2 to 1 ratio 15 work as closely as possible, 1250 dollars may be assigned to the first algorithm and 625 dollars may be assigned to the second algorithm (e.g. by a gaming operator and/or by a gaming entity). The assignment may take place at any time and in any manner (e.g., at the close of the window, as each amount is exposed, when teams are assigned to the algorithms, etc.). Each of the gamers may choose teams (e.g., by the close of the window). The fund may assign teams for each algorithm (e.g., by the end of the window). The teams may be assigned at a size time, before, 20 and/or after a time when a game is assigned to an algorithm. The gaming operator may receive information identifying the play of players in live games and determine the outcomes of the leagues in response. Money may then be assigned to winners of the leagues. It should be recognized that this example is given as a non-limiting example only.

The following sections provide a guide to interpreting the present application.

25

II. Terms

The term “product” means any machine, manufacture and / or composition of matter, unless expressly specified otherwise.

The term “process” means any process, algorithm, method or the like, unless expressly specified otherwise.

Each process (whether called a method, algorithm or otherwise) inherently includes one or more steps, and therefore all references to a “step” or “steps” of a process have an inherent 5 antecedent basis in the mere recitation of the term ‘process’ or a like term. Accordingly, any reference in a claim to a ‘step’ or ‘steps’ of a process has sufficient antecedent basis.

The term “invention” and the like mean “the one or more inventions disclosed in this application”, unless expressly specified otherwise.

10 The terms “an embodiment”, “embodiment”, “embodiments”, “the embodiment”, “the embodiments”, “one or more embodiments”, “some embodiments”, “certain embodiments”, “one embodiment”, “another embodiment” and the like mean “one or more (but not all) embodiments of the disclosed invention(s)”, unless expressly specified otherwise.

The term “variation” of an invention means an embodiment of the invention, unless expressly specified otherwise.

15 A reference to “another embodiment” in describing an embodiment does not imply that the referenced embodiment is mutually exclusive with another embodiment (e.g., an embodiment described before the referenced embodiment), unless expressly specified otherwise.

20 The terms “including”, “comprising” and variations thereof mean “including but not necessarily limited to”, unless expressly specified otherwise. Thus, for example, the sentence “the portfolio includes a red widget and a blue widget” means the portfolio includes the red widget and the blue widget, but may include something else.

25 The term “consisting of” and variations thereof means “including and limited to”, unless expressly specified otherwise. Thus, for example, the sentence “the portfolio consists of a red widget and a blue widget” means the portfolio includes the red widget and the blue widget, but does not include anything else.

The term “compose” and variations thereof means “to make up the constituent parts of, component of or member of”, unless expressly specified otherwise. Thus, for example, the sentence “the red widget and the blue widget compose a portfolio” means the portfolio includes the red widget and the blue widget.

The term “exclusively compose” and variations thereof means “to make up exclusively the constituent parts of, to be the only components of or to be the only members of”, unless expressly specified otherwise. Thus, for example, the sentence “the red widget and the blue widget exclusively compose a portfolio” means the portfolio consists of the red widget and the blue widget, and nothing else.

5 The terms “a”, “an” and “the” mean “one or more”, unless expressly specified otherwise.

The term “plurality” means “two or more”, unless expressly specified otherwise.

The term “herein” means “in the present application, including anything which may be incorporated by reference”, unless expressly specified otherwise.

10 The phrase “at least one of”, when such phrase modifies a plurality of things (such as an enumerated list of things) means any combination of one or more of those things, unless expressly specified otherwise. For example, the phrase “at least one of a widget, a car and a wheel” means either (i) a widget, (ii) a car, (iii) a wheel, (iv) a widget and a car, (v) a widget and a wheel, (vi) a car and a wheel, or (vii) a widget, a car and a wheel. The phrase “at least one of”, 15 when such phrase modifies a plurality of things does not mean “one of each of” the plurality of things.

Numerical terms such as “one”, “two”, etc. when used as cardinal numbers to indicate quantity of something (e.g., one widget, two widgets), mean the quantity indicated by that numerical term, but do not mean at least the quantity indicated by that numerical term. For 20 example, the phrase “one widget” does not mean “at least one widget”, and therefore the phrase “one widget” does not cover, e.g., two widgets.

The phrase “based on” does not mean “based only on”, unless expressly specified otherwise. In other words, the phrase “based on” describes both “based only on” and “based at least on”. The phrase “based at least on” is equivalent to the phrase “based at least in part on”.

25 The term “represent” and like terms are not exclusive, unless expressly specified otherwise. For example, the term “represents” does not mean “represents only”, unless expressly specified otherwise. In other words, the phrase “the data represents a credit card number” describes both “the data represents only a credit card number” and “the data represents a credit card number and the data also represents something else”.

The term “whereby” is used herein only to precede a clause or other set of words that express only the intended result, objective or consequence of something that is previously and explicitly recited. Thus, when the term “whereby” is used in a claim, the clause or other words that the term “whereby” modifies do not establish specific further limitations of the claim or 5 otherwise restricts the meaning or scope of the claim.

The term “e.g.” and like terms mean “for example”, and thus does not limit the term or phrase it explains. For example, in the sentence “the computer sends data (e.g., instructions, a data structure) over the Internet”, the term “e.g.” explains that “instructions” are an example of “data” that the computer may send over the Internet, and also explains that “a data structure” is 10 an example of “data” that the computer may send over the Internet. However, both “instructions” and “a data structure” are merely examples of “data”, and other things besides “instructions” and “a data structure” can be “data”.

The term “respective” and like terms mean “taken individually”. Thus if two or more things have “respective” characteristics, then each such thing has its own characteristic, and 15 these characteristics can be different from each other but need not be. For example, the phrase “each of two machines has a respective function” means that the first such machine has a function and the second such machine has a function as well. The function of the first machine may or may not be the same as the function of the second machine.

The term “i.e.” and like terms mean “that is”, and thus limits the term or phrase it 20 explains. For example, in the sentence “the computer sends data (i.e., instructions) over the Internet”, the term “i.e.” explains that “instructions” are the “data” that the computer sends over the Internet.

Any given numerical range shall include whole and fractions of numbers within the range. For example, the range “1 to 10” shall be interpreted to specifically include whole 25 numbers between 1 and 10 (e.g., 1, 2, 3, 4, … 9) and non-whole numbers (e.g., , 1.1, 1.2, … 1.9).

Where two or more terms or phrases are synonymous (e.g., because of an explicit statement that the terms or phrases are synonymous), instances of one such term / phrase does not mean instances of another such term / phrase must have a different meaning. For example, where a statement renders the meaning of “including” to be synonymous with “including but not

limited to”, the mere usage of the phrase “including but not limited to” does not mean that the term “including” means something other than “including but not limited to”.

III. Determining

5 The term “determining” and grammatical variants thereof (e.g., to determine a price, determining a value, determine an object which meets a certain criterion) is used in an extremely broad sense. The term “determining” encompasses a wide variety of actions and therefore “determining” can include calculating, computing, processing, deriving, investigating, looking up (e.g., looking up in a table, a database or another data structure), ascertaining and the like.

10 Also, “determining” can include receiving (e.g., receiving information), accessing (e.g., accessing data in a memory) and the like. Also, “determining” can include resolving, selecting, choosing, establishing, and the like.

The term “determining” does not imply certainty or absolute precision, and therefore “determining” can include estimating, extrapolating, predicting, guessing and the like.

15 The term “determining” does not imply that mathematical processing must be performed, and does not imply that numerical methods must be used, and does not imply that an algorithm or process is used.

The term “determining” does not imply that any particular device must be used. For example, a computer need not necessarily perform the determining.

20

IV. Forms of Sentences

Where a limitation of a first claim would cover one of a feature as well as more than one of a feature (e.g., a limitation such as “at least one widget” covers one widget as well as more than one widget), and where in a second claim that depends on the first claim, the second claim uses a definite article “the” to refer to the limitation (e.g., “the widget”), this does not imply that the first claim covers only one of the feature, and this does not imply that the second claim covers only one of the feature (e.g., “the widget” can cover both one widget and more than one widget).

When an ordinal number (such as “first”, “second”, “third” and so on) is used as an 30 adjective before a term, that ordinal number is used (unless expressly specified otherwise)

merely to indicate a particular feature, such as to distinguish that particular feature from another feature that is described by the same term or by a similar term. For example, a “first widget” may be so named merely to distinguish it from, e.g., a “second widget”. Thus, the mere usage of the ordinal numbers “first” and “second” before the term “widget” does not indicate any other 5 relationship between the two widgets, and likewise does not indicate any other characteristics of either or both widgets. For example, the mere usage of the ordinal numbers “first” and “second” before the term “widget” (1) does not indicate that either widget comes before or after any other in order or location; (2) does not indicate that either widget occurs or acts before or after any other in time; and (3) does not indicate that either widget ranks above or below any other, as in 10 importance or quality. In addition, the mere usage of ordinal numbers does not define a numerical limit to the features identified with the ordinal numbers. For example, the mere usage of the ordinal numbers “first” and “second” before the term “widget” does not indicate that there must be no more than two widgets.

When a single device, article or other product is described herein, more than one device / 15 article (whether or not they cooperate) may alternatively be used in place of the single device / article that is described. Accordingly, the functionality that is described as being possessed by a device may alternatively be possessed by more than one device / article (whether or not they cooperate).

Similarly, where more than one device, article or other product is described herein 20 (whether or not they cooperate), a single device / article may alternatively be used in place of the more than one device or article that is described. For example, a plurality of computer-based devices may be substituted with a single computer-based device. Accordingly, the various functionality that is described as being possessed by more than one device or article may alternatively be possessed by a single device / article.

25 The functionality and / or the features of a single device that is described may be alternatively embodied by one or more other devices which are described but are not explicitly described as having such functionality / features. Thus, other embodiments need not include the described device itself, but rather can include the one or more other devices which would, in those other embodiments, have such functionality / features.

V. Disclosed Examples and Terminology Are Not Limiting

Neither the Title (set forth at the beginning of the first page of the present application) nor the Abstract (set forth at the end of the present application) is to be taken as limiting in any way as the scope of the disclosed invention(s), is to be used in interpreting the meaning of any 5 claim or is to be used in limiting the scope of any claim.. An Abstract has been included in this application merely because an Abstract is required under 37 C.F.R. § 1.72(b).

The title of the present application and headings of sections provided in the present application are for convenience only, and are not to be taken as limiting the disclosure in any way.

10 Numerous embodiments are described in the present application, and are presented for illustrative purposes only. The described embodiments are not, and are not intended to be, limiting in any sense. The presently disclosed invention(s) are widely applicable to numerous embodiments, as is readily apparent from the disclosure. One of ordinary skill in the art will recognize that the disclosed invention(s) may be practiced with various modifications and 15 alterations, such as structural, logical, software, and electrical modifications. Although particular features of the disclosed invention(s) may be described with reference to one or more particular embodiments and / or drawings, it should be understood that such features are not limited to usage in the one or more particular embodiments or drawings with reference to which they are described, unless expressly specified otherwise.

20 Though an embodiment may be disclosed as including several features, other embodiments of the invention may include fewer than all such features. Thus, for example, a claim may be directed to less than the entire set of features in a disclosed embodiment, and such claim would not include features beyond those features that the claim expressly recites.

25 No embodiment of method steps or product elements described in the present application constitutes the invention claimed herein, or is essential to the invention claimed herein, or is coextensive with the invention claimed herein, except where it is either expressly stated to be so in this specification or expressly recited in a claim.

The preambles of the claims that follow recite purposes, benefits and possible uses of the claimed invention only and do not limit the claimed invention.

The present disclosure is not a literal description of all embodiments of the invention(s). Also, the present disclosure is not a listing of features of the invention(s) which must be present in all embodiments.

All disclosed embodiment are not necessarily covered by the claims (even including all 5 pending, amended, issued and canceled claims). In addition, an embodiment may be (but need not necessarily be) covered by several claims. Accordingly, where a claim (regardless of whether pending, amended, issued or canceled) is directed to a particular embodiment, such is not evidence that the scope of other claims do not also cover that embodiment.

Devices that are described as in communication with each other need not be in 10 continuous communication with each other, unless expressly specified otherwise. On the contrary, such devices need only transmit to each other as necessary or desirable, and may actually refrain from exchanging data most of the time. For example, a machine in communication with another machine via the Internet may not transmit data to the other machine for long period of time (e.g. weeks at a time). In addition, devices that are in communication 15 with each other may communicate directly or indirectly through one or more intermediaries.

A description of an embodiment with several components or features does not imply that all or even any of such components / features are required. On the contrary, a variety of optional components are described to illustrate the wide variety of possible embodiments of the present invention(s). Unless otherwise specified explicitly, no component / feature is essential or 20 required.

Although process steps, algorithms or the like may be described or claimed in a particular sequential order, such processes may be configured to work in different orders. In other words, any sequence or order of steps that may be explicitly described or claimed does not necessarily indicate a requirement that the steps be performed in that order. The steps of processes described 25 herein may be performed in any order possible. Further, some steps may be performed simultaneously despite being described or implied as occurring non-simultaneously (e.g., because one step is described after the other step). Moreover, the illustration of a process by its depiction in a drawing does not imply that the illustrated process is exclusive of other variations and modifications thereto, does not imply that the illustrated process or any of its steps are 30 necessary to the invention(s), and does not imply that the illustrated process is preferred.

Although a process may be described as including a plurality of steps, that does not imply that all or any of the steps are preferred, essential or required. Various other embodiments within the scope of the described invention(s) include other processes that omit some or all of the described steps. Unless otherwise specified explicitly, no step is essential or required.

5 Although a process may be described singly or without reference to other products or methods, in an embodiment the process may interact with other products or methods. For example, such interaction may include linking one business model to another business model. Such interaction may be provided to enhance the flexibility or desirability of the process.

10 Although a product may be described as including a plurality of components, aspects, qualities, characteristics and / or features, that does not indicate that any or all of the plurality are preferred, essential or required. Various other embodiments within the scope of the described invention(s) include other products that omit some or all of the described plurality.

15 An enumerated list of items (which may or may not be numbered) does not imply that any or all of the items are mutually exclusive, unless expressly specified otherwise. Likewise, an enumerated list of items (which may or may not be numbered) does not imply that any or all of the items are comprehensive of any category, unless expressly specified otherwise. For example, the enumerated list “a computer, a laptop, a PDA” does not imply that any or all of the three items of that list are mutually exclusive and does not imply that any or all of the three items of that list are comprehensive of any category.

20 An enumerated list of items (which may or may not be numbered) does not imply that any or all of the items are equivalent to each other or readily substituted for each other.

 All embodiments are illustrative, and do not imply that the invention or any embodiments were made or performed, as the case may be.

25 **VI. Computing**

 It will be readily apparent to one of ordinary skill in the art that the various processes described herein may be implemented by, e.g., appropriately programmed general purpose computers, special purpose computers and computing devices. Typically a processor (e.g., one or more microprocessors, one or more microcontrollers, one or more digital signal processors) 30 will receive instructions (e.g., from a memory or like device), and execute those instructions,

thereby performing one or more processes defined by those instructions. Instructions may be embodied in, e.g., one or more computer programs, one or more scripts.

A “processor” means one or more microprocessors, central processing units (CPUs), computing devices, microcontrollers, digital signal processors, or like devices or any combination thereof, regardless of the architecture (e.g., chip-level multiprocessing / multi-core, RISC, CISC, Microprocessor without Interlocked Pipeline Stages, pipelining configuration, simultaneous multithreading).

Thus a description of a process is likewise a description of an apparatus for performing the process. The apparatus that performs the process can include, e.g., a processor and those input devices and output devices that are appropriate to perform the process.

Further, programs that implement such methods (as well as other types of data) may be stored and transmitted using a variety of media (e.g., computer readable media) in a number of manners. In some embodiments, hard-wired circuitry or custom hardware may be used in place of, or in combination with, some or all of the software instructions that can implement the processes of various embodiments. Thus, various combinations of hardware and software may be used instead of software only.

The term “computer-readable medium” refers to any medium, a plurality of the same, or a combination of different media, that participate in providing data (e.g., instructions, data structures) which may be read by a computer, a processor or a like device. Such a medium may take many forms, including but not limited to, non-volatile media, volatile media, and transmission media. Non-volatile media include, for example, optical or magnetic disks and other persistent memory. Volatile media include dynamic random access memory (DRAM), which typically constitutes the main memory. Transmission media include coaxial cables, copper wire and fiber optics, including the wires that comprise a system bus coupled to the processor. Transmission media may include or convey acoustic waves, light waves and electromagnetic emissions, such as those generated during radio frequency (RF) and infrared (IR) data communications. Common forms of computer-readable media include, for example, a floppy disk, a flexible disk, hard disk, magnetic tape, any other magnetic medium, a CD-ROM, DVD, any other optical medium, punch cards, paper tape, any other physical medium with patterns of holes, a RAM, a PROM, an EPROM, a FLASH-EEPROM, any other memory chip or

cartridge, a carrier wave as described hereinafter, or any other medium from which a computer can read.

Various forms of computer readable media may be involved in carrying data (e.g. sequences of instructions) to a processor. For example, data may be (i) delivered from RAM to a 5 processor; (ii) carried over a wireless transmission medium; (iii) formatted and / or transmitted according to numerous formats, standards or protocols, such as Ethernet (or IEEE 802.3), SAP, ATP, Bluetooth[®], and TCP/IP, TDMA, CDMA, and 3G; and / or (iv) encrypted to ensure privacy or prevent fraud in any of a variety of ways well known in the art.

Thus a description of a process is likewise a description of a computer-readable medium 10 storing a program for performing the process. The computer-readable medium can store (in any appropriate format) those program elements which are appropriate to perform the method.

Just as the description of various steps in a process does not indicate that all the described steps are required, embodiments of an apparatus include a computer / computing device operable to perform some (but not necessarily all) of the described process.

15 Likewise, just as the description of various steps in a process does not indicate that all the described steps are required, embodiments of a computer-readable medium storing a program or data structure include a computer-readable medium storing a program that, when executed, can cause a processor to perform some (but not necessarily all) of the described process.

Where databases are described, it will be understood by one of ordinary skill in the art 20 that (i) alternative database structures to those described may be readily employed, and (ii) other memory structures besides databases may be readily employed. Any illustrations or descriptions of any sample databases presented herein are illustrative arrangements for stored representations of information. Any number of other arrangements may be employed besides those suggested by, e.g., tables illustrated in drawings or elsewhere. Similarly, any illustrated entries of the 25 databases represent exemplary information only; one of ordinary skill in the art will understand that the number and content of the entries can be different from those described herein. Further, despite any depiction of the databases as tables, other formats (including relational databases, object-based models and / or distributed databases) could be used to store and manipulate the data types described herein. Likewise, object methods or behaviors of a database can be used to 30 implement various processes, such as the described herein. In addition, the databases may, in a

known manner, be stored locally or remotely from a device which accesses data in such a database.

Various embodiments can be configured to work in a network environment including a computer that is in communication (e.g., via a communications network) with one or more devices. The computer may communicate with the devices directly or indirectly, via any wired or wireless medium (e.g. the Internet, LAN, WAN or Ethernet, Token Ring, a telephone line, a cable line, a radio channel, an optical communications line, commercial on-line service providers, bulletin board systems, a satellite communications link, a combination of any of the above). Each of the devices may themselves comprise computers or other computing devices, such as those based on the Intel® Pentium® or Centrino™ processor, that are adapted to communicate with the computer. Any number and type of devices may be in communication with the computer.

In an embodiment, a server computer or centralized authority may not be necessary or desirable. For example, the present invention may, in an embodiment, be practiced on one or more devices without a central authority. In such an embodiment, any functions described herein as performed by the server computer or data described as stored on the server computer may instead be performed by or stored on one or more such devices.

Where a process is described, in an embodiment the process may operate without any user intervention. In another embodiment, the process includes some human intervention (e.g., a step is performed by or with the assistance of a human).

What is claimed is:

Claims

1. An apparatus comprising:
 - a processor; and
 - a non-transitory medium having stored thereon a plurality of instructions that when executed by the processor cause the apparatus to:
 - receive an indication of an amount of money from a gaming entity;
 - determine one or more portions of the amount of money to expose to a gaming market on behalf of the gaming entity;
 - expose the one or more portions to the gaming market;
 - match at least one portion of the exposed amount with at least one counter party to form at least one game between the entity and at least one counter party;
 - determine one or more additional portions of the amount to expose to the gaming market based on matching the at least one portion
 - expose the one or more additional portions of the amount to the gaming market in response to matching the at least one portion;
 - set characteristics for the at least one game between the entity and the at least one counter party; and
 - resolve the at least one game.
- 20 2. The apparatus of claim 1, in which the one or more portions include a plurality of portions that sum to less than the amount of money.
- 25 3. The apparatus of claim 1, in which determining the one or more portions includes determining the one or more portions based on historical demand for games such that the portions are expected to meet expected demand.

4. The apparatus of claim 1, in which the gaming entity includes at least one of an algorithmic gaming entity, a hedge fund, and a mutual fund.

5. The apparatus of claim 1, in which the counter party includes a natural gamer.

5

6. The apparatus of claim 1, in which exposing the one or more portions includes creating new fantasy sports leagues with a gaming operator that may be joined by other gamers.

7. The apparatus of claim 6, in which matching the at least one portion includes:
10 receiving a request from the counter party to join a first league of the fantasy sports leagues and entering the counter party into the league to form the game.

8. The apparatus of claim 1, in which the apparatus includes a device of a gaming operator that forms games involving users in fantasy leagues.

15

9. The apparatus of claim 1, in which determining the one or more additional portions includes determining one or more replacement portions for the at least one portion.

10. The apparatus of claim 9, in which the one or more replacement portions are
20 determining based on demand for gaming such that changing demand is expected to be met by the replacement portions.

11. The apparatus of claim 1, in which the game includes a fantasy sports game and the characteristics include teams for each of the counter party and the gaming entity.

25

12. The apparatus of claim 11, in which the instructions cause the apparatus to: receive a first team from the gamer and a second team from the gaming entity; and set the characteristics to match the first team and second team.

5 13. The apparatus of claim 12, in which the characteristics include a spread between the first team and the second team and in which the instructions cause the apparatus to: determine a first sum of expected point value to be earned by members of the first team and a second sum of expected point value to be earned by members of the second team; and determine the difference between the first sum and the second sum.

10

14. The apparatus of claim 13, in which each expected point value of each member is skewed down from a true expected value.

15 15. The apparatus of claim 1, in which resolving the game includes determining an outcome for the game based on one or more events and adjusting one or more monetary accounts in response.

20 16. The apparatus of claim 1, in which the at least one portion includes a plurality of portions that are matched with respective counter interests from respective gamers to form respective games so that the gaming entity is entered into a plurality of respective games with a plurality of respective gamers.

17. The apparatus of claim 16, in which setting the characteristics for the at least one game includes setting characteristics for the plurality of respective games.

25

18. The apparatus of claim 17, in which each of the games of the plurality of respective games includes a fantasy sports game and in which the instructions cause the apparatus to receive a fantasy team from the gaming entity to be used for all of the plurality of games, in

which the fantasy team is received as a single command from the entity to assign the team to all of the plurality of games.

19. The apparatus of claim 1, in which the instructions cause the apparatus to: receive an
5 indication of a second amount of money from the gaming entity; and expose at least one second portion of the second amount of money to the gaming market.

20. The apparatus of claim 19, in which the instructions cause the apparatus to: prevent a
match between a portion of the amount of money and a portion of the second amount of money.

10

21. The apparatus of claim 19, in which the instructions cause the apparatus to: assign the
at least one portion to the amount of money based on relationship that the gaming entity defined
between the amount of money to the second amount of money.

15

22. The apparatus of claim 21, in which the relationship defines a ratio for matching
gamers to the amount and the second amount.

20

23. The apparatus of claim 21, in which the instructions cause the apparatus to match the
second portion to form a game between a second gamer and the gaming entity; and set
characteristics to be different for the second game than the first game.

25

24. The apparatus of claim 19, in which the amount is based on a first algorithm operated
by the gaming entity and the second amount is based on a second algorithm operated by the
gaming entity.

30

25. The apparatus of claim 1, in which determining the one or more portions includes
determining the portions to simulate a Dutch auction in which larger portions are exposed before
smaller portions.

26. A method comprising:

receiving, by a computing device of a gaming operator, an indication of an amount of money from a gaming entity;

5 determining, by the computing device, one or more portions of the amount of money to expose to a gaming market on behalf of the gaming entity;

exposing, by the computing device, the one or more portions to the gaming market;

matching, by the computing device, at least one portion of the exposed amount with at least one counter party to form at least one game between the entity and at least one counter party;

10 determining, by the computing device, one or more additional portions of the amount to expose to the gaming market based on matching the at least one portion;

exposing, by the computing device, the one or more additional portions of the amount to the gaming market in response to matching the at least one portion;

15 setting, by the computing device, characteristics for the at least one game between the entity and the at least one counter party; and

resolving, by the computing device, the at least one game.

1/2

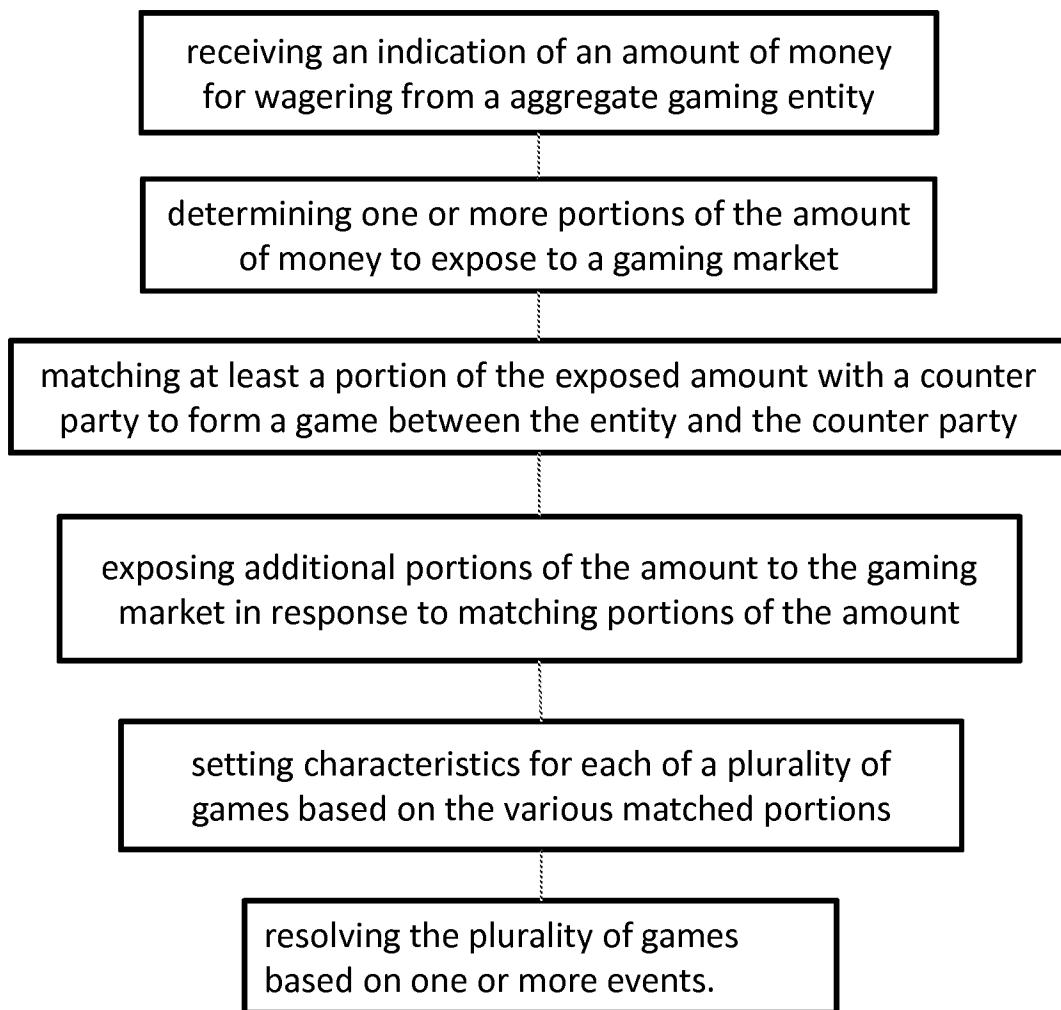


Figure 1

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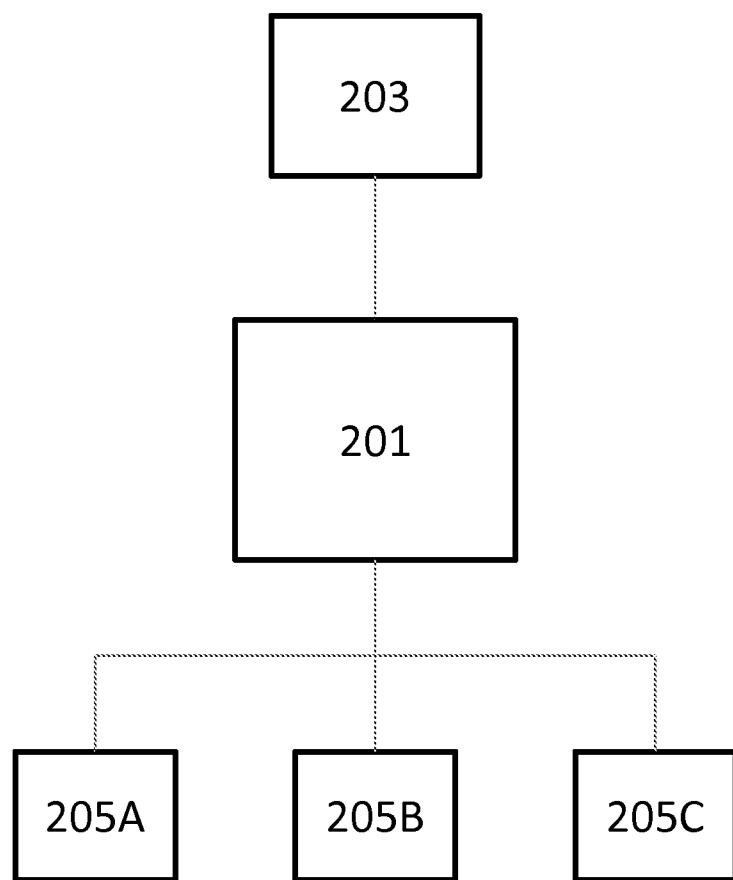


Figure 2

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 14/14909

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - G06Q 40/00 (2014.01)
 USPC - 705/35; 463/25

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 USPC: 463/25; 705/35; G06Q 40/00 (2014.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 463/1,4,40,44; 705/1,1,35-36; G06Q*

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 PatBase (All); Google (Patents, Scholar, Web)
 Search Terms: Gaming, slots, lottery, gambl*, lottery, lotto, wager*, bet*, Money, fund*, dough, cash, financing, bankroll, Amount, measure, magnitude, sum, Expos*, disclos*, bet, wagered, exhibit, Market, contest, Match*, Additional, further, more, Characteristic?

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0015429 A1 (Tighe et al.) 22 January 2004 (22.01.2004), entire document, especially para [0003]-[0011], [0058] and [0090]	1-3, 5, 9-10, 15-17, 19-24 and 26
Y		4, 6-8, 11-14, 18 and 25
Y	US 2010/0088250 A1 (Magnolia et al.) 8 April 2010 (08.04.2010), entire documents, entire document para [0056] and [0062]	6-8, 11-14 and 18
Y	US 2006/0183547 A1 (McMongile et al.) 17 August 2006 (17.08.2006), entire document, especially para [0032]-[0084]	4 and 25
A	US 2009/0305777 A1 (Anderson) 10 December 2009 (10.12.2009) Entire document	1-26

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
5 May 2015 (05.05.2015)	21 MAY 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)