the ballhandler, the ballhandler position, the screener, the screener position, the ballhandler outcome, the screener outcome, the direction, the type of pick, the type of pop/roll, the direction of the pop/roll, and presence of the play (e.g., on the wing or in the middle). Many other examples of filters are possible, as a filter can exist for any type of parameter that is tracked with respect to an event that is extracted by the system or that is in the spatiotemporal data set used to extract events. The present disclosure also allows situational comparisons. The user interface allows a user to search for a specific player that may fit into offense. The highly accurate dataset and easy to use interface allows the user to compare similar players in similar situations. The user interface may allow the user to explore player tendencies. The user interface may allow locating shot locations and also may provide advanced search capabilities.

[00101] Filters enable users to subset the data in a large number of ways, and immediately receive metrics calculated on the subset. Using multiple loops for convergence in machine learning enables the system to return the newly filtered data and metrics in real-time, whereas existing methods would require minutes to re-compute the metrics given the filters, leading to inefficient exploration loops (FIG. 3). Given that the data exploration and investigation process often requires many loops, these inefficiencies can otherwise add up quickly.

[00102] As illustrated with reference to Figs. 6A-6B, there are many filters that may enable a user to select specific situations of interest to analyze. These filters may be categorized in logical groups, including, but not limited to, Game, Team, Location, Offense, Defense, and Other. The possible filters may automatically change depending on the type of event being analyzed, for example, Shooting, Rebounding, Picks, Handoffs, Isolations, Postups, Transitions, Closeouts, Charges, Drives, Lineups, Matchups, Play Types, Possessions.

[00103] For all event types, under the Game category, filters may include Season, specific Games, Earliest Date, Latest Date, Home Team, Away Team, where the game is being played Home/Away, whether the outcome was Wins/Losses, whether the game was a Playoff game, and recency of the game.

[00104] For all event types, under the Team category, filters may include Offensive Team, Defensive Team, Offensive Players on Court, Defenders Players on Court, Offensive Players Off Court, Defenders Off Court.

[00105] For all event types, under the Location category, the user may be given a clickable court map that is segmented into logical partitions of the court. The user may then select any number of these partitions in order to filter only events that occurred in those partitions.

[00106] For all event types, under the Other category, the filters may include Score Differential, Play Start Type (Multi-Select: Field Goal ORB, Field Goal DRB, Free Throw ORB, Free Throw DRB, Jump Ball, Live Ball Turnover, Defensive Out of Bounds, Sideline Out of Bounds), Periods, Seconds Remaining, Chance After Timeout (T/F/ALL), Transition (T/F/ALL).

[00107] For Shooting, under the Offense category, the filters may include Shooter, Position, Outcome (Made/Missed/All), Shot Value, Catch and Shoot (T/F/ALL), Shot Distance, Simple Shot Type (Multi-Select: Heave, Angle Layup, Driving Layup, Jumper, Post), Complex Shot Type (Multi-Select: Heave, Lob, Tip, Standstill Layup, Cut Layup, Driving Layup, Floater, Catch and Shoot), Assisted (T/F/ALL), Pass From (Player), Blocked (T/F/ALL), Dunk (T/F/ALL), Bank (T/F/ALL), Goaltending (T/F/ALL), Shot Attempt Type (Multi-select: FGA No Foul, FGM Foul, FGX Foul), Shot SEFG (Value Range), Shot Clock (Range), Previous Event (Multi-Select: Transition, Pick, Isolation, Handoff, Post, None).

[00108] For Shooting, under the Defense category, the filters may include Defender Position (Multi-Select: PG, SG, SF, PF, CTR), Closest Defender, Closest Defender Distance, Blocked By, Shooter Height Advantage.

[00109] For Picks, under the Offense category, the filters may include Ballhandler, Ballhandler Position, Screener, Screener Position, Ballhandler Outcome (Pass, Shot, Foul, Turnover), Screener Outcome (Pass, Shot, Foul, Turnover), Direct or Indirect Outcome, Pick Type (Reject, Slip, Pick), Pop/Roll, Direction, Wing/Middle, Middle/Wing/Step-Up.

[00110] For Picks, under the Defense category, the filters may include Ballhandler Defender, Ballhandler Defender Position, Screener Defender, Screener Defender Position, Ballhandler Defense Type (Over, Under, Blitz, Switch, Ice), Screener Defense Type (Soft, Show, Ice, Blitz, Switch), Ballhandler Defense (Complex) (Over, Under, Blitz, Switch, Ice, Contain Trap, Weak), Screener Defense (Complex) (Over, Under, Blitz, Switch, Ice, Contain Trap, Weak, Up to Touch).

[00111] For Drives, under the Offense category, the filters may include Ballhandler, Ballhandler Position, Ballhandler Outcome, Direct or Indirect, Drive Category (Handoff, Iso, Pick, Closeout, Misc.), Drive End (Shot Near Basket, Pullup, Interior Pass, Kickout, Pullout, Turnover, Stoppage, Other), Direction, Blowby (T/F).

[00112] For Drives, under the Defense category, the filters may include Ballhandler Defender, Ballhandler Defender Position, Help Defender Present (T/F), Help Defenders.

[00113] For most other events, under the Offense category, the filters may include Ballhandler, Ballhandler Position, Ballhandler Outcome, Direct or Indirect.

[00114] For most other events, under the Defense category, the filters may include Ballhandler Defender, Ballhandler Defender Position.

[00115] For Postups, under the Offense category, the filters may additionally include Area (Left, Right, Middle).

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[00116] For Postups, under the Defense category, the filters may additionally include Double Team (T/F).

[00117] The present disclosure provides detailed analysis capabilities, such as through the depicted user interface embodiment of FIG. 7. In an example depicted in the FIG. 7, the user interface may be used to know if a player should try and ice the pick and roll or not between two players. Filters can go from all picks, to picks involving a selected player as ballhandler, to picks involving that ballhandler with a certain screener, to the type of defense played by that screener. By filtering down to particular matchups (by player combinations and actions taken), the system allows rapid exploration of the different options for coaches and players, and selection of preferred actions that had the best outcomes in the past. Among other things, the system may give detailed breakdown of a player's opponent and a better idea of what to expect during a game. The user interface may be used to know and highlight opponent capabilities. A breakdowns UI may make it easy for a user to drill down to a specific situation, all while gaining insight regarding frequency and efficacy of relevant slices through the data.

[00118] The events captured by the present system may be capable of being manipulated using the UI. Fig. 8 shows a visualization, where a dropdown feature 802 allows a user to select various parameters related to the ballhandler, such as to break down to particular types of situations involving that ballhandler. These types of "breakdowns" facilitate improved interactivity with video data, including enhanced video data created with the methods and systems disclosed herein. Most standard visualizations are static images. For large and complex datasets, especially in cases where the questions to be answered are unknown beforehand, interactivity enables the user to explore the data, ask new questions, get new answers. Visualizations may be color coded good (e.g., orange) to bad (e.g., blue) based on outcomes in particular situations for easy understanding without reading the detailed

numbers. Elements like the sizes of partitions can be used, such as to denote frequency. Again, a user can comprehend significance from a glance. In embodiments, each column represents a variable for partitioning the dataset. It is easy for a user to add, remove, and re-arrange columns by clicking and dragging. This makes it easy to experiment with different visualizations. Furthermore, the user can drill into a particular scenario by clicking on the partition of interest, which zooms into that partition, and redraws the partitions in the columns to the right so that they are re-scaled appropriately. This enables the user to view the relative sample sizes of the partitions in columns to the right, even when they are small relative to all possible scenarios represented in columns further to the left. In embodiments, a video icon takes a user to video clips of the set of plays that correspond to a given partition. Watching the video gives the user ideas for other variables to use for partitioning.

[00119] Various interactive visualizations may be created to allow users to better understand insights that arise from the classification and filtering of events, such as ones that emphasize color coding for easy visual inspection and detection of anomalies (e.g. a generally good player with lots of orange but is bad/blue in one specific dimension). Conventionally, most standard visualizations are static images. However, for large and complex datasets, especially in cases where the questions to be answered are unknown beforehand, interactivity enables the user to explore the data, ask new questions, get new answers. For example, a breakdown view may be color coded good (orange) to bad (blue) for easy understanding without reading the numbers. Sizes of partitions may denote frequency of events. Again, one can comprehend from a glance the events that occur most frequently. Each column of a visualization may represent a variable for partitioning the dataset. It may be easy to add, remove, and re-arrange columns by clicking and dragging. This makes it easy to experiment with possible visualizations. In embodiments, a video icon may take a user to video clips, such as of the set of plays that correspond to that partition. Watching the video

gives the user ideas for other variables to use for partitioning.

[00120] In embodiments, a ranking view is provided. Upon mousing over each row of a ranking view, histograms above each column may give the user a clear contextual understanding that row's performance for each column variable. The shape of a distribution is often informative. Color-coded bars within each cell may also provide a view of each cell's performance that is always available, without mousing over. Alternatively, the cells themselves may be color-coded.

[00121] The system may provide a personalized video in embodiments of the methods and systems described herein. For example, with little time to scout the opposition, the system can provide a user relevant information to quickly prepare team. The team may rapidly retrieve the most meaningful plays, cut and compiled to specific needs of players. The system may provide immediate video cut-ups. In embodiments, the present disclosure provides a video that is synchronized with identified actions. For example, if spatiotemporal machine learning identifies a segment of video as showing a pick and roll involving two players, then that video segment may be tagged, so that when that event is found (either by browsing or by filtering to that situation), the video can be displayed. Because the machine understands the precise moment that an event occurs in the video, a user-customizable segment of video can be created. For example, the user can retrieve video corresponding to x seconds before, and y seconds after, each event occurrence. Thus, video may be tagged and associated with events. The present disclosure may provide a video that may allow customization by numerous filters of the type disclosed above, relating to finding video that satisfies various parameters, that displays various events, or combinations thereof. For example, in embodiments, an interactive interface provided by the present disclosure allows watching videos clips for specific game situations or actions.

[00122] Reports may provide a user with easy access to printable pages

summarizing pre-game information about an opponent, scouting report for a particular player, or a post-game summary. For example, the reports may collect actionable useful information in one to two easy-to-digest pages. These pages may be automatically scheduled to be sent to other staff members, e.g. post-game reports sent to coaches after each game. Referring to Fig. 11, a report may include statistics for a given player, as well as visual representations, such as of locations 1102 where shots were taken, including shots of a particular type (such as catch and shoot shots).

[00123] The UI as illustrated in FIG. 12 provides a court comparison view 1202 among several parts of a sports court (and can be provided among different courts as well). For example, filters 1204 may be used to select the type of statistic to show for a court. Then statistics can be filtered to show results filtered by left side 1208 or right side 1214. Where the statistics indicate an advantage, the advantages can be shown, such as of left side advantages 1210 and right side advantages 1212.

[00124] In sports, the field of play is an important domain constant or elements. Many aspects of the game are best represented for comparison on a field of play. In embodiments, a four court comparison view 1202 is a novel way to compare two players, two teams, or other entities, to gain an overview view of each player/team (Leftmost and Rightmost figures) 1208, 1214 and understand each one's strengths/weaknesses (Left and Right Center figures 1210, 1212).

[00125] The court view UI 1302 as illustrated in FIG. 13 provides a court view 1304 of a sport arena 1304, in accordance with an embodiment of the present disclosure. Statistics for very specific court locations can be presented on a portion 1308 of the court view. The UI may provide a view of custom markings, in accordance with an embodiment of the present invention.

[00126] Referring to Fig. 14, filters may enable users to subset the data in a large

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number of ways, and immediately receive metrics calculated on the subset. Descriptions of particular events may be captured and made available to users.

[00127] Various events may be labeled in a game, as reflected in Fig. 15, which provides a detailed view of a timeline 1502 of a game, broken down by possession 1504, by chances 1508, and by specific events 1510 that occurred along the timeline 1502, such as determined by spatiotemporal pattern recognition, by human analysis, or by a combination of the two. Filter categories available by a user interface of the present disclosure may include ones based on seasons, games, home teams, away teams, earliest date, latest date, postseason/regular season, wins/losses, offense home/away, offensive team, defensive team, players on the court for offense/defense, players off court for offense/defense, location, score differential, periods, time remaining, play type (e.g., after timeout play) and transition/no transition. Events may include ones based on primitive markings, such as shots, shots with a corrected shot clock, rebounds, passes, possessions, dribbles, and steals, and various novel event types, such as SEFG (shot quality), EFG+, player adjusted SEFG, and various rebounding metrics, such as positioning, opportunity percentage, attack, conversion percentage, rebounding above position (RAP), attack+, conversion+ and RAP+. Offensive markings may include simple shot types (e.g., angled layup, driving layup, heave, post shot, jumper), complex shot types (e.g., post shot, heave, cut layup, standstill layup, lob, tip, floater, driving layup, catch and shoot stationary, catch and shoot on the move, shake & raise, over screen, pullup and stepback), and other information relating to shots (e.g., catch and shoot, shot clock, 2/3S, assisted shots, shooting foul/not shooting foul, made/missed, blocked/not blocked, shooter/defender, position/defender position, defender distance and shot distance). Other events that may be recognized, such as through the spatiotemporal learning system, may include ones related to picks (ballhandler/screener, ballhandler/screener defender, pop/roll, wing/middle, step-up screens, reject/slip/take, direction (right/left/none),

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double screen types (e.g., double, horns, L, and handoffs into pick), and defense types (ice, blitz, switch, show, soft, over, under, weak, contain trap, and up to touch), ones related to handoffs (e.g., receive/setter, receiver/setter defender, handoff defense (ice, blitz, switch, show, soft, over, or under), handback/dribble handoff, and wing/step-up/middle), ones related to isolations (e.g., ballhandler/defender and double team), and ones related to post-ups (e.g., ballhandler/defender, right/middle/left and double teams).

[00128] Defensive markings are also available, such as ones relating to closeouts (e.g. ballhandler/defender), rebounds (e.g., players going for rebounds (defense/offense)), pick/handoff defense, post double teams, drive blow-bys and help defender on drives), ones relating to off ball screens (e.g., screener/cutter and screener/cutter defender), ones relating to transitions (e.g. when transitions/fast breaks occur, players involved on offense and defense, and putback/no putback), ones relating to how plays start (e.g., after timeout/not after timeout, sideline out of bounds, baseline out of bounds, field goal offensive rebound/defensive rebound, free throw offensive rebound/defensive rebound and live ball turnovers), and ones relating to drives, such as ballhandler/defender, right/left, blowby/no blowby, help defender presence, identity of help defender, drive starts (e.g., handoff, pick, isolation or closeout) and drive ends (e.g., shot near basket, interior pass, kickout, pullup, pullout, stoppage, and turnover). These examples and many others from basketball and other sports may be defined, based on any understanding of what constitutes a type of event during a game. Markings may relate to off ball screens (screener/cutter), screener/cutter defender, screen types (down, pro cut, UCLA, wedge, wide pin, back, flex, clip, zipper, flare, cross, and pin in).

[00129] Fig. 16 shows a system 1602 for querying and aggregation. In embodiments, data is divided into small enough shards that each worker has low latency response time. Each distributed machine may have multiple workers corresponding to the

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number of processes the machine can support concurrently. Query results never rely on more than one shard, since we enforce that events never cross quarter/period boundaries. Aggregation functions all run incrementally rather than in batch process, so that as workers return results, these are incorporated into the final answer immediately. To handle results such as rankings pages, where many rows must be returned, the aggregator uses hashes to keep track of the separate rows and incrementally updates them.

[00130] Fig. 17 shows a process flow for a hybrid classification process that uses human labelers together with machine learning algorithms to achieve high accuracy. This is similar to the flow described above in connection with Fig. 2, except with the explicit inclusion of the human-machine validation process. By taking advantage of aligned video as described herein, one may provide an optimized process for human validation of machine labeled data. Most of the components are similar to those described in connection with Fig. 2 and in connection with the description of aligned video, such as the XYZ data source 1702, cleaning process 1704, spatiotemporal pattern recognition module 1712, event processing system 1714, video source 1708, alignment facility 1710 and video snippets facility 1718. Additional components include a validation and quality assurance process 1720 and an event-labeling component 1722. Machine learning algorithms are designed to output a measure of confidence. For the most part, this corresponds to the distance from a separating hyperplane in the feature space. In embodiments, one may define a threshold for confidence. If an example is labeled by the machine and has confidence above the threshold, the event goes into the canonical event datastore 210 and nothing further is done. If an example has a confidence score below the threshold, then the system may retrieve the video corresponding to this candidate event, and ask a human operator to provide a judgment. The system asks two separate human operators for labels. If the given labels agree, the event goes into the canonical event datastore 210. If they do not, a third person, known as the supervisor, is

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contacted for final opinion. The supervisor's decision may be final. The canonical event datastore 210 may contain both human marked and completely automated markings. The system may use both types of marking to further train the pattern recognition algorithms. Event labeling is similar to the canonical event datastore 210, except that sometimes one may either 1) develop the initial gold standard set entirely by hand, potentially with outside experts, or 2) limit the gold standard to events in the canonical event datastore 210 that were labeled by hand, since biases may exist in the machine labeled data.

[00131] Fig. 18 shows test video input for use in the methods and systems disclosed herein, including views of a basketball court from simulated cameras, both simulated broadcast camera views 1802 as well as purpose-mounted camera views 1804.

[00132] Fig. 19 shows additional test video input for use in the methods and systems disclosed herein, including input from broadcast video 1902 and from purpose-mounted cameras 1904 in a venue. Referring to Fig. 20, probability maps 2004 may be computed based on likelihood there is a person standing at each x,y location.

[00133] Fig. 21 shows a process flow of an embodiment of the methods and systems described herein. Initially, in an OCR process 2118, machine vision techniques are used to automatically locate the "score bug" and determine the location of the game clock, score, and quarter information. This information is read and recognized by OCR algorithms. Post-processing algorithms using various filtering techniques are used to resolve issues in the OCR. Kalman filtering / HMMs used to detect errors and correct them. Probabilistic outputs (which measure degree of confidence) assist in this error detection/correction. Next, in a refinement process 2120, sometimes, a score bug is non-existent or cannot be detected automatically (e.g. sometimes during PIP or split screens). In these cases, remaining inconsistencies or missing data is resolved with the assistance of human input. Human input is designed to be sparse so that labelers do not have to provide input at every frame.

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Interpolation and other heuristics are used to fill in the gaps. Consistency checking is done to verify game clock. Next, in an alignment process, 2112 the Canonical Datastore 2110 (referred to elsewhere in this disclosure alternatively as the event datastore) contains a definitive list of events that the system knows occurred during a game. This includes events extracted from the XYZ data 2102, such as after cleansing 2104 and spatiotemporal pattern recognition 2108, as well as those specified by third-party sources such as player-by-player data sets 2106, such as available from various vendors. Differences among the data sources can be resolved, such as by a resolver process. The events in the canonical datastore 2110 may have game clock times specified for each event. Depending on the type of event, the system knows that the user will be most likely to be interested in a certain interval of game play tape before and after that game clock. The system can thus retrieve the appropriate interval of video for the user to watch.

[00134] One challenge pertains to the handling of dead ball situations and other game clock stoppages. The methods and systems disclosed herein include numerous novel heuristics to enable computation of the correct video frame that shows the desired event, which has a specified game clock, and which could be before or after the dead ball, since those frames have the same game clock. The game clock is typically specified only at the one-second level of granularity, except in the final minute of each quarter.

[00135] Another advance is to use machine vision techniques to verify some of the events. For example: video of a made shot will typically show the score being increased, or will show a ball going through a hoop. Either kind of automatic observation serves to help the alignment process result in the correct video frames being shown to the end user.

[00136] Next, in a query UI component 2130, the UI enables a user to quickly and intuitively request all video clips associated with a set of characteristics: player, team, play type, ballhandler, ballhandler velocity, time remaining, quarter, defender, etc. In addition,

when a user is watching a video clip, the user can request all events that are similar to whatever just occurred in the video. The system uses a series of cartoon-like illustration to depict possible patterns that represent "all events that are similar." This enables the user to choose the intended pattern, and quickly search for other results that match that pattern.

[00137] Next, the methods and systems may enable delivery of enhanced video, or video snips 2124, which may include rapid transmission of clips from stored data in the cloud. The system may store video as chunks (e.g., one minute chunks), such as in AWS S3, with each subsequent file overlapping with a previous file, such as by 30 seconds. Thus, each video frame may be stored twice. Other instantiations of the system may store the video as different sized segments, with different amounts of overlap, depending on the domain of use. In embodiments, each video file is thus kept at a small size. The 30-second duration of overlap may be important because most basketball possessions (or chances in our terminology) do not last more than 24 seconds. Thus, each chance can be found fully contained in one video file, and in order to deliver that chance, the system does not need to merge content from multiple video files. Rather, the system simply finds the appropriate file that contains the entire chance (which in turn contains the event that is in the query result), and returns that entire file, which is small. With the previously computed alignment index, the system is also able to inform the UI to skip ahead to the appropriate frame of the video file in order to show the user the query result as it occurs in that video file. This delivery may occur using AWS S3 as the file system, the Internet as transport, and a browser-based interface as the UI. It may find other instantiations with other storage, transport, and UI components.

[00138] Fig. 22 shows certain metrics that can be extracted using the methods and systems described herein, relating to rebounding in basketball. These metrics include positioning metrics, attack metrics, and conversion metrics. For positioning, the methods and

systems described herein first address how to value the initial position of the players when the shot is taken. This is a difficult metric to establish. The methods and systems disclosed herein may give a value to the real estate that each player owns at the time of the shot. This breaks down into two questions: (1) what is the real estate for each player? (2) what is it worth? To address the first question, one may apply the technique of using Voronoi (or Dirichlet) tessellations. Voronoi tessellations are often applied to problems involving spatial allocation. These tessellations partition a space into Voronoi cells given a number of points in that space. For any point, it is the intersection of the self-containing halfspaces defined by hyper-planes equidistant from that point to all other points. That is, a player's cell is all the points on the court that are closer to the player than any other player. If all players were equally capable they should be able to control any rebound that occurred in this cell. One understands that players are not equally capable however this establishment of real estate is to set a baseline for performance. Over performance or under performance of this baseline will be indicative of their ability. To address the second question, one may condition based on where the shot was taken and calculate a spatial probability distribution of where all rebounds for similar shots were obtained. For each shot attempt, one may choose a collection of shots closest to the shot location that provides enough samples to construct a distribution. This distribution captures the value of the real estate across the court for a given shot. To assign each player a value for initial positioning, i.e., the value of the real estate at the time of the shot, one may integrate the spatial distribution over the Voronoi cell for that player. This yields the likelihood of that player getting the rebound if no one moved when the shot was taken and they controlled their cell. We note that because we use the distribution of location of the rebound conditioned on the shot, it is not a matter of controlling more area or even necessarily area close to the basket, but the most valuable area for that shot. While the most valuable areas are almost always close to the basket, there are some directional effects.

[00139] For an attack or hustle metric, one may look at phases following a shot, such as an initial crash phase. To analyze this, one may look at the trajectory of the ball and calculate the time that it gets closest to the center of the rim. At this point, one may reapply the Voronoi-based analysis and calculate the rebound percentages of each player, i.e., the value of the real the estate that each player has at the time the ball hits the rim. The change in this percentage from the time the shot is taken to the time it hits the rim is the value or likelihood the player had added during the phase. Players can add value by crashing the boards, i.e., moving closer to the basket towards places where the rebound is likely to go, or by blocking out, i.e., preventing other players by taking valuable real estate that is already established. A useful, novel metric for the crash phase is generated by subtracting the rebound probability at the shot from the rebound probability at the rim. The issue is that the ability to add probability is not independent from the probability at the shot. Consider a case of a defensive player who plays close to the basket. The player is occupying high value real estate, and once the shot is taken, other players are going to start coming into this real estate. It is difficult for players with high initial positioning value to have positive crash deltas. Now consider a player out by the three-point line. Their initial value is very low and moving any significant distance toward the rim will give them a positive crash delta. Thus, it is not fair to compare these players on the same scale. To address this, one may look at the relationship of the raw crash deltas (the difference between the probability at rim and probability at shot) compared to the probability at shot. In order to normalize for this effect, one may subtract the value of the regression at the player's initial positioning value from the raw crash delta to form the players Crash value. Intuitively, the value indicates how much more probability is added by this player beyond what a player with similar initial positioning would add. One may apply this normalization methodology to all the metrics the initial positioning affects the other dimensions and it can be beneficial to control for it.

[00140] A player has an opportunity to rebound the ball if they are the closest player to the ball once the ball gets below ten feet (or if they possess the ball while it is above ten feet). The player with the first opportunity may not get the rebound so multiple opportunities could be created after a single field goal miss. One may tally the number of field goal misses for which a player generated an opportunity for themselves and divided by the number of field goals to create an opportunity percentage metric. This indicates the percentage of field goal misses for which that player ended up being closest to the ball at some point. The ability for a player to generate opportunities beyond his initial position is the second dimension of rebounding: Hustle. Again, one may then apply the same normalization process as described earlier for Crash.

[00141] The reason that there are often multiple opportunities for rebounds for every missed shot is that being closest to the ball does not mean that a player will convert it into a rebound. Thus, the third dimension of rebounding, conversion. The raw conversion metric for players is calculated simply by dividing the number of rebounds obtained by the number of opportunities generated.

[00142] Formally, given a shot s described by its 2D coordinates on the court, s_x and s_y, which is followed by a rebound r, also described by its coordinates on the court of r_x and r_y, one may estimate P(r_y, r_x | s_x, s_y), the probability density of the rebound occurring at each position on the court given its shot location.

[00143] This may be accomplished by first discretizing the court into, for example, 156 bins, created by separating the court into 13 equally spaced columns, and 12 equally spaced rows. Then, given some set S of shots from a particular bin, the rebounds from S will be distributed in the bins of the court according to a multinomial distribution. One may then apply maximum likelihood estimation to determine the probability of a rebound in each of the

bins of the court, given the training set S. This process may be performed for bins that shots may fall in, giving 156 distributions for the court.

[00144] Using these distributions one may determine P(r_y, r_x | s_x, s_y). First the shot s is mapped to an appropriate bin. The probability distribution determined in the previous step is then utilized to determine the probability of the shot being rebounded in every bin of the court. One assumes that within a particular bin, the rebound is uniformly likely to occur in any coordinate. Thus a probability density of the probability of the rebound falling in the bin is assigned to all points in the bin.

[00145] Using the probability density P(r_y, r_x | s_x, s_y), one may determine the probability that each particular player grabs the rebound given their location and the position of the other players of the court.

[00146] To accomplish this, one may first create a Voronoi diagram of the court, where the set of points is the location (p_x, p_y) for each player on the court. In such a diagram, each player is given a set of points that they control. Formally one may characterize the set of points that player P_k controls in the following manner, where X is all points on the court, and d denotes the Cartesian distance between 2 points.

[00147] $$R_k = \{x \in X \mid d(x, P_k) \leq d(x, P_j) \text{ for all } j \neq k\}$$

[00148] Now there exists the 2 components for determining the probability that each player gets the rebound given their location, specifically, the shot's location, and the location of all the other players on the court. One may determine this value by assuming that if a ball is rebounded, it will always be rebounded by the closest available player. Therefore, by integrating the probability of a rebound over each location in the player's Voronoi cell, we determine their rebound probability:

[00149] $$\int_R P(r_x, r_y | s_x, s_y)\, dxdy$$

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[00150] The preceding section describes a method for determining the players rebounding probability, assuming that the players are stationary. However, players often move in order to get into better positions for the rebound, especially when they begin in poor positions. One may account for this phenomena. Let the player's raw rebound probability be denoted r_p and let d be an indicator variable denoting whether the player is on defense.

[00151] On may then attempt to estimate the player's probability of getting a rebound, which we express in the following manner:

[00152] $P(r \mid r_p, d)$

[00153] One does this by performing two linear regressions, one for the offensive side of the ball and one for the defensive. One may attempt to estimate $p(r \mid r_p, d)$ in the following manner:

[00154] $P(r \mid r_p, d=0) = A_o * r_p + B_o$

[00155] $P(r \mid r_p, d=1) = A_d * r_p + B_d$

[00156] This results in four quantities to estimate. One may do this by performing an ordinary least squares regression for offensive and defensive players over all rebounds in the test set. One may use 1 as a target variable when the player rebounds the ball, and 0 when he does not. This regression is performed for offense to determine A_o and B_o and for defense to determine A_d and B_d. One can then use the values to determine the final probability of each player getting the rebound given the shots location and the other players on the court.

[00157] Novel shooting metrics can also be created using this system. One is able to determine the probability of a shot being made given various features of the shot *s*, denoted as F. Formally each shot can be characterized by a feature vector of the following form:

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[dist(hoop, shooter), dist(shooter, $defender_0$), |angle(hoop, shooter, $defender_0$)|,|angle(shooter, hoop, $hoop_{other}$), I(shot=catchAndShoot), dist(shooter, $defender_1$)]

[00158] Here, the hoop represents the basket the shooter is shooting at, $defender_0$ refers to the closest defender to the shooter, $defender_1$ refers to the second closest defender, and $hoop_{other}$ refers to the hoop on the other end of the court. The angle function refers to the angle between three points, with the middle point serving as the vertex. I(shot=catchAndShoot) is an indicator variable, set to 1 if the shooter took no dribbles in the individual possession before shooting the shot, otherwise set to 0.

[00159] Given these features one seeks to estimate P(*s* = make). To do this, one may first split the shots into 2 categories, one for where dist(hoop, shooter) is less than 10, and the other for the remaining shots. Within each category one may find coefficients $\beta_0, \beta_1, \ldots, \beta_5$ for the following equation:

$1 / (1 + e^{(-t)})$

where

$t = F_0 * \beta_0 + F_1 * \beta_1 + \ldots + F_5 * \beta_5$

[00160] Here, F_0 through F_5 denote the feature values for the particular shot. One may find the coefficient values $\beta_0, \beta_1, \ldots, \beta_5$ using logistic regression on the training set of shots *S*. The target for the regression is 0 when the shot is missed and 1 when the shot is made. By performing two regressions, one is able to find appropriate values for the coefficients, for both shots within 10 feet, and longer shots outside 10 feet.

[00161] As depicted in Fig. 23, three or four dimensions can be dynamically displayed on a 2-D graph scatter rank view 2302, including the x, y, size of the icon, and changes over time. Each dimension may be selected by the user to represent a variable of the

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user's choice. Also, on mouse-over, related icons may highlight, e.g. mousing over one player may highlight all players on the same team.

[00162] As depicted in Fig. 40, reports 2402 can be customized by the user, so that a team can create a report that is specifically tailored to that team's process and workflow. Another feature is that the report may visually display not only the advantages and disadvantages for each category shown, but also the size of that advantage or disadvantage, along with the value and rank of each side being compared. This visual language enables a user to quickly scan the report and understanding the most important points.

[00163] Referring to Fig. 25, an embodiment of a quality assurance UI 2502 is provided. The QA UI 2502 presents the human operator with both an animated 2D overhead view 2510 of the play, as well as a video clip 2508 of the play. A key feature is that only the few seconds relevant to that play are shown to the operator, instead of an entire possession, which might be over 20 seconds long, or even worse, requiring the human operator to fast forward in the game tape to find the event herself. Keyboard shortcuts are used for all operations, to maximize efficiency. Referring to Fig. 26, the operator's task is simplified to its core, so that we lighten the cognitive load as much as possible: if the operator is verifying a category of plays X, the operator has to simply choose, in an interface element 2604 of the embodiment of the QA UI 2602 whether the play shown in the view 2608 is valid (Yes or No), or (Maybe). She can also deem the play to be a (Duplicate), a (Compound) play that means it is just one type-X action in a consecutive sequence of type-X actions, or choose to (Flag) the play for supervisor review for any reason. Features of the UI 2602 include the ability to fast word, rewind, submit and the like, as reflected in the menu element 2612. A table 2610 can allow a user to indicate validity of plays occurring at designated times.

[00164] Fig. 27 shows a method of camera pose detection, also known as "court solving." The figure shows result of automatic detection of the "paint", and use of the

boundary lines to solve for the camera pose. The court lines and hoop location, given the solved camera pose, are then shown projected back onto the original image 2702. This projection is from the first iteration of the solving process, and one can see that the projected court and the actual court do not yet align perfectly. One may use machine vision techniques to find the hoop and to find the court lines (e.g. paint boundaries), then use found lines to solve for the camera pose. Multiple techniques may be used to determine court lines, including detecting the paint area. Paint area detection can be done automatically. One method involves automatically removing the non-paint area of the court by automatically executing a series of "flood fill" type actions across the image, selecting for court-colored pixels. This leaves the paint area in the image, and it is then straightforward to find the lines/points. One may also detect all lines on the court that are visible, e.g. background or 3-poin arc. In either case, intersections provide points for camera solving. A human interface 2702 may be provided for providing points or lines to assist algorithms, to fine-tune the automatic solver. Once all inputs are provided, the camera pose solver is essentially a randomized hill climber that uses the mathematical models as a guide (since it may be under-constrained). It may use multiple random initializations. It may advance a solution if it is one of the best in that round. When an iteration is done, it may repeat until the error is small. Figure 46 shows the result of automatic detection of the "paint", and use of the boundary lines to solve for the camera pose. The court lines and hoop location, given the solved camera pose, are then shown projected back onto the original image. This projection is from the first iteration of the solving process, and one can see that the projected court and the actual court do not yet align perfectly.

[00165] Figure 28 relates to camera pose detection. The second step 2802 shown in the Figure shows how the human can use this GUI to manually refine camera solutions that remain slightly off.

[00166] Figure 29 relates to auto-rotoscoping. Rotoscoping 2902 is required in order to paint graphics around players without overlapping the players' bodies. Rotoscoping is partially automated by selecting out the parts of the image with similar color as the court. Masses of color left in the image can be detected to be human silhouettes. The patch of color can be "vectorized" by finding a small number of vectors that surround the patch, but without capturing too many pixels that might not represent a player's body.

[00167] Figures 30A-30C relate to scripted storytelling with an asset library 3002. To produce the graphics-augmented clips, a company may either learn heavily on a team of artists, or a company may determine how best to handle scripting based on a library of assets. For example, instead of manually tracing a player's trajectory and increasing the shot probability in each frame as the player gets closer to the ball, a scripting language allows the methods and systems described herein to specify this augmentation in a few lines of code. In another example, for rebound clips, the Voronoi partition and the associated rebound positioning percentages can be difficult to compute for every frame. A library of story element effects may list each of these current and future effects. Certain combinations of scripted story element effects may be best suited for certain types of clips. For example, a rebound and put-back will likely make use of the original shot probability, the rebound probabilities including Voronoi partitioning, and then go back to the shot probability of the player going for the rebound. This entire script can be learned as being well-associated with the event type in the video. Over time, the system can automatically infer the best, or at least retrieve an appropriate, story line to match up with a selected video clip containing certain events. This enables augmented video clips, referred to herein as DataFX clips, to be auto-generated and delivered throughout a game.

[00168] Figures 31-38 show examples of DataFX visualizations. The visualization of Figure 31 requires court position to be solved in order to lay down grid, player "puddles".

Shot arc also requires backboard/hoop solution. In Figure 32, Voronoi tessellation, heat map, shot and rebound arcs all require the camera pose solution. The highlight of the player uses rotoscoping. In Figure 33, in addition to the above, players are rotoscoped for highlighting. Figures 34-38 show additional visualizations that are based on use of the methods and systems disclosed herein.

[00169] In embodiments, DataFX (video augmented with data-driven special effects) may be provided for pre-, during, or post- game viewing, for analytic and entertainment purposes. DataFX may combine advanced data with Hollywood-style special effects. Pure numbers can be boring, while pure special effects can be silly, but combination of the two and the results can be very powerful. Example features used alone or in combination in DataFX can include use of a Voronoi overlay on court, a Grid overlay on court, a Heat map overlay on court, a Waterfall effect showing likely trajectories of the ball after a missed field goal attempt, a Spray effect on a shot, showing likely trajectories of the shot to the hoop, Circles and glows around highlighted players, Statistics and visual cues over or around players, Arrows and other markings denoting play actions, Calculation overlays on court, and effects showing each variable taken into account.

[00170] Figures 39-41 show a product referred to as "Clippertron." Provided is a method and system whereby fans can use their distributed mobile devices to individually and/or collectively control what is shown on the Jumbotron or video board(s). An embodiment enables the fan to go through mobile application dialogs in order to choose the player, shot type, and shot location to be shown on the video board. The fan can also enter in his or her own name, so that it is displayed alongside the highlight clip. Clips are shown on the Video Board in real time, or queued up for display. Variations include getting information about the fan's seat number. This could be used to show a live video feed of the fan while their selected highlight is being shown on the video board. Referred to as

"FanMix" is a web-based mobile app that enables in-stadium fans to control the Jumbotron and choose highlight clips to push to the Jumbotron. An embodiment of FanMix enables fans to choose their favorite player, shot type, and shot location using a mobile device web interface. Upon pressing the submit button, a highlight showing this particular shot is sent to the Jumbotron and displayed according to placement order in a queue. Enabling this capability is that video is lined up to each shot within a fraction of a second. This allows many clips to be shown in quick succession, each showing video from the moment of release to the ball going through the hoop. In some cases, video may start from the beginning of a play, instead of when a play begins.

[00171] Figure 41 relates to an offering referred to as "inSight." This offering allows pushing of relevant stats to fans' mobile devices 4104. For example, if player X just made a three-point shot from the wing, this would show statistics about how often he made those types of shots 4108, versus other types of shots, and what types of play actions he typically made these shots off of. inSight does for hardcore fans what Eagle (the system described above) does for team analysts and coaches. Information, insights, and intelligence may be delivered to fans' mobile devices while they are seated in the arena. This data is not only beautiful and entertaining, but is also tuned in to the action on the court. For example, after a seemingly improbable corner three by a power forward, the fan is immediately pushed information that shows the shot's frequency, difficulty, and likelihood of being made. In embodiments, the platform features described above as "Eagle," or a subset thereof, may be provided, such as in a mobile phone form factor for the fan. An embodiment may include a storyboard stripped down, such as from a format for an 82" touch screen to a small 4" screen. Content may be pushed to device that corresponds to the real time events happening in the game. Fans may be provided access to various effects (e.g., DataFX features described herein) and to the other features of the methods and systems disclosed herein.

[00172] Figures 42 and 43 show touchscreen product interface elements 4202, 4204, 4208, 4302 and 4304. These are essentially many different skins and designs on the same basic functionality described throughout this disclosure. Advanced stats are shown in an intuitive large-format touch screen interface. A touchscreen may act as a storyboard for showing various visualizations, metric and effects that conform to an understanding of a game or element thereof. Embodiments include a large format touch screen for commentators to use during a broadcast. While InSight serves up content to a fan, the Storyboard enables commentators on TV to access content in a way that helps them tell the most compelling story to audiences.

[00173] Features include providing a court view, a hexagonal Frequency+Efficiency View, a "City/Matrix" View with grids of events, a Face/Histogram View, Animated intro sequences that communicate to a viewer that each head's position means that player's relative ranking, an Animated face shuttle that shows re-ranking when metric is switched, a ScatterRank View, a ranking using two variables (one on each axis), a Trends View, integration if metrics with on-demand video and the ability to r-skin or simplify for varying levels of commentator ability.

[00174] In embodiments, new metrics can be used for other activities, such as driving new types of fantasy games, e.g. point scoring in fantasy leagues could be based on new metrics.

[00175] In embodiments, DataFX can show the player how his points were scored, e.g. overlay that runs a counter over a RB's head showing yards rushed while the video shows RB going down the field. In embodiments, one can deliver, for example, video clips (possibly enhanced by DataFX effects) corresponding to plays that scored points for a fantasy user's team for that night or week.

[00176] Using an inSight-like mobile interface, a social game can be made so that

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much of the game play occurs in real time while the fan is watching the game.

[00177] Using Insight-like mobile device features, a social game can be managed so that game play occurs in real time while a fan is watching the game, experiencing various DataFX effects and seeing fantasy scoring-relevant metrics on screen during the game. In embodiments, the methods and systems may include a fantasy advice or drafting tool for fans, presenting rankings and other metrics that aid in player selection.

[00178] Just as Eagle enables teams to get more wins by devising better tactics and strategy, we could provide an Eagle-like service for fantasy players that gives the players a winning edge. The service/tool would enable fans to research all the possible players, and help them execute a better draft or select a better lineup for an upcoming week/game.

[00179] DataFX can also be used for instant replays with DataFX optimized so that it can produce "instant replays" with DataFX overlays. This relies on a completely automated solution for court detection, camera pose solving, player tracking, and player roto-scoping.

[00180] Interactive DataFX may also be adapted for display on a second screen, such as a tablet, while a user watches a main screen. Real time or instant reply viewing and interaction may be used to enable such effects. On a second screen-type viewing experience, the fan could interactively toggle on and off various elements of DataFX. This enables the fan to customize the experience, and to explore many different metrics. Rather than only DataFX-enabled replays, the system could be further optimized so that DataFX is overlaid in true real time, enabling the user to toggle between a live video feed, and a live video feed that is overlaid with DataFX. The user would then also be able to choose the type of DataFX to overlay, or which player(s) to overlay it on.

[00181] A touch screen UI may be established for interaction with DataFX.

[00182] Many of the above embodiments may be used for basketball, as well as for

other sports and for other items that are captured in video, such as TV shows, movies, or live video (e.g., news feeds). For sports, we use the player tracking data layer to enable the computer to "understand" every second of every game. This enables the computer to deliver content that is extracting from portions of the game, and to augment that content with relevant story-telling elements. The computer thus delivers personalized interactive augmented experiences to the end user.

[00183] For non-sports domains, such as TV shows or movies, there is no player tracking data layer that assists the computer in understanding the event. Rather, in this case, the computer must derive, in some other way, an understanding of each scene in a TV show or movie. For example, the computer might use speech recognition to extract the dialogue throughout a show. Or it could use computer vision to recognize objects in each scene, such as robots in the Transformer movie. Or is could use a combination of these inputs and others to recognize things like explosions. The sound track could also provide clues.

[00184] The resulting system would use this understand to deliver the same kind of personalized interactive augmented experience as we have described for the sports domain. For example, a user could request to see the Transformer movie series, but only a compilation of the scenes where there are robots fighting and no human dialogue. This enables "short form binge watching", where users can watch content created by chopping up and re-combining bits of content from original video. The original video could be sporting events, other events TV shows, movies, and other sources. Users can thus gorge on video compilations that target their individual preferences. This also enables a summary form of watching, suitable for catching up with current events or currently trending video, without having to watch entire episodes or movies.

[00185] The methods and systems disclosed herein may also include one or more of the following features and capabilities: spatiotemporal pattern recognition (including

active learning of complex patterns and learning of actions such as P&R, postups, play calls); hybrid methods for producing high quality labels, combining automated candidate generation from XY data, and manual refinement; indexing of video by automated recognition of game clock; presentation of aligned optical and video; new markings using combined display, both manual and automated (via pose detection etc); metrics: shot quality, rebounding, defense and the like; visualizations such as Voronoi, heatmap distribution, etc.; embodiment on various devices; video enhancement with metrics & visualizations; interactive display using both animations and video; gesture and touch interactions for sports coaching and commentator displays; and cleaning of XY data using HMM, PBP, video, hybrid validation.

[00186] Further details as to data cleaning 204 are provided herein. Raw input XYZ is frequently noisy, missing, or wrong. XYZ data is also delivered with attached basic events such as possession, pass, dribble, shot. These are frequently incorrect. This is important because event identification further down the process (Spatiotemporal Pattern Recognition) sometimes depends on the correctness of these basic events. As noted above, for example, if two players' XY positions are switched, then "over" vs. "under" defense would be incorrectly switches, since the players' relative positioning is used as a critical feature for the classification. Also, PBP data sources are occasionally incorrect. First, one may use validation algorithms to detect all events, including the basic events such as possession, pass, dribble, shot, and rebound that are provided with the XYZ data. Possession / Non-possession may use a Hidden Markov Model to best fit the data to these states. Shots and rebounds may use the possession model outputs, combined with 1) projected destination of the ball, and 2) PBP information. Dribbles may be identified using a trained ML algorithm, and also using the output of the possession model.

[00187] Specifically, once possessions are determined, dribbles may be identified with a hidden Markov model. The hidden Markov model consists of three states:

1. Holding the ball while the player is still able to dribble.

2. Dribbling the ball.

3. Holding the ball after the player has already dribbled.

[00188] A player starts in State 1 when he gains possession of the ball. At all times players are allowed to transition to either their current state, or the state with a number one higher than their current state, if such a state exists.

[00189] The players likelihood of staying in their current state or transitioning to another state may be determined by the transition probabilities of the model as well as the observations. The transition probabilities may be learned empirically from the training data. The observations of the model consist of the player's speed, which is placed into two categories, one for fast movement, and one for slow movement, as well as the ball's height, which is placed into categories for low and high height. The cross product of these two observations represents the observation space for the model. Similar to the transition probabilities, the observation probabilities given a particular state may be learned empirically from the training data. Once these probabilities are known, the model is fully characterized, and may be used to classify when the player is dribbling on unknown data.

[00190] Once it is known that the player is dribbling, it remains to be determined when the actual dribbles occur. This may be done with a Support Vector Machine that uses domain specific information about the ball and player, such as the height of the ball as a feature to determine whether at that instant the player is dribbling. A filtering pass may also be applied to the resulting dribbles to ensure that they are sensibly separated, so that for instance, two dribbles do not occur within .04 seconds of each other.

[00191] Returning to the discussion of the algorithms, these algorithms decrease the basic event labeling error rate by a significant factor, such as about 50%. Second, the system has a library of anomaly detection algorithms to identify potential problems in the

data. These include temporal discontinuities (intervals of missing data are flagged); spatial discontinuities (objects traveling is a non-smooth motion, "jumping"); interpolation detection (data that is too smooth, indicating that post-processing was done by the data supplier to interpolate between known data points in order to fill in missing data). This problem data is flagged for human review, so that events detected during these periods are subject to further scrutiny.

[00192] Spatio-player tracking may be undertaken in at least two types, as well as in a hybrid combined type. For tracking with broadcast video, the broadcast video is obtained from multiple broadcast video feeds. Typically, this will include a standard "from the stands view" from the center stands midway-up, a backboard view, a stands view from a lower angle from each corner, and potentially other views. Optionally, PTZ (pan tilt zoom) sensor information from each camera is also returned. An alternative is a Special Camera Setup method. Instead of broadcast feeds, this uses feeds from cameras that are mounted specifically for the purposes of player tracking. The cameras are typically fixed in terms of their location, pan, tilt, zoom. These cameras are typically mounted at high overhead angles; in the current instantiation, typically along the overhead catwalks above the court. A Hybrid/Combined System may be used. This system would use both broadcast feeds and feeds from the purpose-mounted cameras. By combining both input systems, accuracy is improved. Also, the outputs are ready to be passed on to the DataFX pipeline for immediate processing, since the DataFX will be painting graphics on top of the already-processed broadcast feeds. Where broadcast video is used, the camera pose must be solved in each frame, since the PTZ may change from frame to frame. Optionally, cameras that have PTZ sensors may return this info to the system, and the PTZ inputs are used as initial solutions for the camera pose solver. If this initialization is deemed correct by the algorithm, it will be used as the final result; otherwise refinement will occur until the system receives a useable

solution. As described above, players may be identified by patches of color on the court. The corresponding positions are known since the camera pose is known, and we can perform the proper projections between 3D space and pixel space.

[00193] Where purpose mounted cameras are used, multiple levels of resolution may be involved. Certain areas of the court or field require more sensitivity, e.g. on some courts, the color of the "paint" area makes it difficult to track players when they are in the paint. Extra cameras with higher dynamic range and higher zoom are focused on these areas. The extra sensitivity enables the computer vision techniques to train separate algorithms for different portions of the court, tuning each algorithm to its type of inputs and the difficult of that task.

[00194] In a combination system, by combining the fixed and broadcast video feeds, the outputs of a player tracking system can feed directly into the DataFX production, enabling near-real-time DataFX. Broadcast video may also produce high-definition samples that can be used to increase accuracy.

[00195] Methods and systems disclosed herein may include tracklet stitching. Optical player tracking results in short to medium length tracklets, which typically end when the system loses track of a player or the player collides (or passes close to) with another player. Using team identification and other attributes, algorithms can stitch these tracklets together.

[00196] Where a human being is in the loop, systems may be designed for rapid interaction and for disambiguation and error handling. Such a system is designed to optimize human interaction with the system. Novel interfaces may be provided to specify the motion of multiple moving actors simultaneously, without having to match up movements frame by frame.

[00197] In embodiments, custom clipping is sued for content creation, such as

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involving OCR. Machine vision techniques may be used to automatically locate the "score bug" and determine the location of the game clock, score, and quarter information. This information is read and recognized by OCR algorithms. Post-processing algorithms using various filtering techniques are used to resolve issues in the OCR. Kalman filtering / HMMs may be used to detect errors and correct them. Probabilistic outputs (which measure degree of confidence) assist in this error detection/correction.

[00198] Sometimes, a score is non-existent or cannot be detected automatically (e.g. sometimes during PIP or split screens). In these cases, remaining inconsistencies or missing data is resolved with the assistance of human input. Human input is designed to be sparse so that labelers do not have to provide input at every frame. Interpolation and other heuristics are used to fill in the gaps. Consistency checking is done to verify game clock.

[00199] For alignment 2112, as discussed in connection with Fig. 21, another advance is to use machine vision techniques to verify some of the events. For example: video of a made shot will typically show the score being increased, or will show a ball going through a hoop. Either kind of automatic observation serves to help the alignment process result in the correct video frames being shown to the end user.

[00200] In accordance with an exemplary and non-limiting embodiment, augmented or enhanced video with extracted semantics-based experience is provided based, at least in part, on 3D position/motion data. [CV1A] In accordance with other exemplary embodiments there is provided embeddable app content for augmented video with an extracted semantics-based experience. [CV1B] In yet another exemplary embodiment, there is provided the ability to automatically detect the court/field, and relative positioning of the camera, in (near) real time using computer vision techniques. This may be combined with automatic rotoscoping of the players in order to produce dynamic augmented video content.

[00201] In accordance with an exemplary and non-limiting embodiment, there is

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described a method for the extraction of events and situations corresponding to semantically relevant concepts. In yet other embodiments, semantic events may be translated and catalogued into data and patterns.

[00202] In accordance with an exemplary and non-limiting embodiment, there is provided a touch screen or other gesture-based interface experience based, at least in part, on extracted semantic events.

[00203] In accordance with an exemplary and non-limiting embodiment, there is described a second screen interface unique to extracted semantic events and user selected augmentations. In yet other embodiments, the second screen may display real-time, or near real time, contextualized content.

[00204] In accordance with an exemplary and non-limiting embodiment, there is described a method for "painting" translated semantic data onto an interface.

[00205] In accordance with an exemplary and non-limiting embodiment, there is described spatio-temporal pattern recognition based, at least in part, on optical XYZ alignment for semantic events. In yet other embodiments, there is described the verification and refinement of spatiotemporal semantic pattern recognition based, at least in part, on hybrid validation from multiple sources.

[00206] In accordance with an exemplary and non-limiting embodiment, there is described human identified video alignment labels and markings for semantic events. In yet other embodiments, there is described machine learning algorithms for spatiotemporal pattern recognition based, at least in part, on human identified video alignment labels for semantic events.

[00207] In accordance with an exemplary and non-limiting embodiment, there is described automatic game clock indexing of video from sporting events using machine vision techniques, and cross-referencing this index with a semantic layer that indexes game events.

The product is the ability to query for highly detailed events, and return corresponding video in near real-time.

[00208] In accordance with an exemplary and non-limiting embodiment, there is described unique metrics based, at least in part, on spatiotemporal patterns including, for example, shot quality, rebound ratings (positioning, attack, conversion) and the like.

[00209] In accordance with an exemplary and non-limiting embodiment, there is described player tracking using broadcast video feeds.

[00210] In accordance with an exemplary and non-limiting embodiment, there is described player tracking using multi-camera system.

[00211] In accordance with an exemplary and non-limiting embodiment, there is described video cut-up based on extracted semantics. A video cut-up is a remix made up of small clips of video that are related to each other in some meaningful way. The semantic layer enables real-time discovery and delivery of custom cut-ups. The semantic layer may be produced in one of two ways: (1) Video combined with data produces semantic layer, or (2) video directly to a semantic layer. Extraction may be through ML or human tagging. In some exemplary embodiments, video cut-up may be based, at least in part, on extracted semantics, controlled by users in a stadium and displayed on a jumbotron. In other embodiments, video cut-up may be based, at least in part, on extracted semantics, controlled by users at home and displayed on broadcast TV. In yet other embodiments, video cut-up may be based, at least n part, on extracted semantics, controlled by individual users and displayed on web, tablet, or mobile for that user. In yet other embodiments, video cut-up may be based, at least in part, on extracted semantics, created by an individual user, and shared with others. Sharing could be through inter-tablet/inter-device communication, or via mobile sharing sites.

[00212] In accordance with an exemplary and non-limiting embodiment, X,Y and

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Z data may be collected for purposes of inferring player actions that have a vertical component.

[00213] The methods and systems described herein may be deployed in part or in whole through a machine that executes computer software, program codes, and/or instructions on a processor. The processor may be part of a server, client, network infrastructure, mobile computing platform, stationary computing platform, or other computing platform. A processor may be any kind of computational or processing device capable of executing program instructions, codes, binary instructions and the like. The processor may be or include a signal processor, digital processor, embedded processor, microprocessor or any variant such as a co-processor (math co-processor, graphic co-processor, communication co-processor and the like) and the like that may directly or indirectly facilitate execution of program code or program instructions stored thereon. In addition, the processor may enable execution of multiple programs, threads, and codes. The threads may be executed simultaneously to enhance the performance of the processor and to facilitate simultaneous operations of the application. By way of implementation, methods, program codes, program instructions and the like described herein may be implemented in one or more thread. The thread may spawn other threads that may have assigned priorities associated with them; the processor may execute these threads based on priority or any other order based on instructions provided in the program code. The processor may include memory that stores methods, codes, instructions and programs as described herein and elsewhere. The processor may access a storage medium through an interface that may store methods, codes, and instructions as described herein and elsewhere. The storage medium associated with the processor for storing methods, programs, codes, program instructions or other type of instructions capable of being executed by the computing or processing device may include but may not be limited to one or more of a CD-ROM, DVD, memory, hard disk,

flash drive, RAM, ROM, cache and the like.

[00214] A processor may include one or more cores that may enhance speed and performance of a multiprocessor. In embodiments, the process may be a dual core processor, quad core processors, other chip-level multiprocessor and the like that combine two or more independent cores (called a die).

[00215] The methods and systems described herein may be deployed in part or in whole through a machine that executes computer software on a server, client, firewall, gateway, hub, router, or other such computer and/or networking hardware. The software program may be associated with a server that may include a file server, print server, domain server, Internet server, intranet server and other variants such as secondary server, host server, distributed server and the like. The server may include one or more of memories, processors, computer readable media, storage media, ports (physical and virtual), communication devices, and interfaces capable of accessing other servers, clients, machines, and devices through a wired or a wireless medium, and the like. The methods, programs or codes as described herein and elsewhere may be executed by the server. In addition, other devices required for execution of methods as described in this application may be considered as a part of the infrastructure associated with the server.

[00216] The server may provide an interface to other devices including, without limitation, clients, other servers, printers, database servers, print servers, file servers, communication servers, distributed servers and the like. Additionally, this coupling and/or connection may facilitate remote execution of program across the network. The networking of some or all of these devices may facilitate parallel processing of a program or method at one or more location without deviating from the scope. In addition, any of the devices attached to the server through an interface may include at least one storage medium capable of storing methods, programs, code and/or instructions. A central repository may provide

program instructions to be executed on different devices. In this implementation, the remote repository may act as a storage medium for program code, instructions, and programs.

[00217] The software program may be associated with a client that may include a file client, print client, domain client, Internet client, intranet client and other variants such as secondary client, host client, distributed client and the like. The client may include one or more of memories, processors, computer readable media, storage media, ports (physical and virtual), communication devices, and interfaces capable of accessing other clients, servers, machines, and devices through a wired or a wireless medium, and the like. The methods, programs or codes as described herein and elsewhere may be executed by the client. In addition, other devices required for execution of methods as described in this application may be considered as a part of the infrastructure associated with the client.

[00218] The client may provide an interface to other devices including, without limitation, servers, other clients, printers, database servers, print servers, file servers, communication servers, distributed servers and the like. Additionally, this coupling and/or connection may facilitate remote execution of program across the network. The networking of some or all of these devices may facilitate parallel processing of a program or method at one or more location without deviating from the scope. In addition, any of the devices attached to the client through an interface may include at least one storage medium capable of storing methods, programs, applications, code and/or instructions. A central repository may provide program instructions to be executed on different devices. In this implementation, the remote repository may act as a storage medium for program code, instructions, and programs.

[00219] The methods and systems described herein may be deployed in part or in whole through network infrastructures. The network infrastructure may include elements such as computing devices, servers, routers, hubs, firewalls, clients, personal computers, communication devices, routing devices and other active and passive devices, modules and/or

components as known in the art. The computing and/or non-computing device(s) associated with the network infrastructure may include, apart from other components, a storage medium such as flash memory, buffer, stack, RAM, ROM and the like. The processes, methods, program codes, instructions described herein and elsewhere may be executed by one or more of the network infrastructural elements.

[00220] The methods, program codes, and instructions described herein and elsewhere may be implemented on a cellular network having multiple cells. The cellular network may either be frequency division multiple access (FDMA) network or code division multiple access (CDMA) network. The cellular network may include mobile devices, cell sites, base stations, repeaters, antennas, towers, and the like. The cell network may be a GSM, GPRS, 3G, EVDO, mesh, or other networks types.

[00221] The methods, programs codes, and instructions described herein and elsewhere may be implemented on or through mobile devices. The mobile devices may include navigation devices, cell phones, mobile phones, mobile personal digital assistants, laptops, palmtops, netbooks, pagers, electronic books readers, music players and the like. These devices may include, apart from other components, a storage medium such as a flash memory, buffer, RAM, ROM and one or more computing devices. The computing devices associated with mobile devices may be enabled to execute program codes, methods, and instructions stored thereon. Alternatively, the mobile devices may be configured to execute instructions in collaboration with other devices. The mobile devices may communicate with base stations interfaced with servers and configured to execute program codes. The mobile devices may communicate on a peer to peer network, mesh network, or other communications network. The program code may be stored on the storage medium associated with the server and executed by a computing device embedded within the server. The base station may include a computing device and a storage medium. The storage device may store

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program codes and instructions executed by the computing devices associated with the base station.

[00222] The computer software, program codes, and/or instructions may be stored and/or accessed on machine readable media that may include: computer components, devices, and recording media that retain digital data used for computing for some interval of time; semiconductor storage known as random access memory (RAM); mass storage typically for more permanent storage, such as optical discs, forms of magnetic storage like hard disks, tapes, drums, cards and other types; processor registers, cache memory, volatile memory, non-volatile memory; optical storage such as CD, DVD; removable media such as flash memory (e.g. USB sticks or keys), floppy disks, magnetic tape, paper tape, punch cards, standalone RAM disks, Zip drives, removable mass storage, off-line, and the like; other computer memory such as dynamic memory, static memory, read/write storage, mutable storage, read only, random access, sequential access, location addressable, file addressable, content addressable, network attached storage, storage area network, bar codes, magnetic ink, and the like.

[00223] The methods and systems described herein may transform physical and/or or intangible items from one state to another. The methods and systems described herein may also transform data representing physical and/or intangible items from one state to another.

[00224] The elements described and depicted herein, including in flow charts and block diagrams throughout the figures, imply logical boundaries between the elements. However, according to software or hardware engineering practices, the depicted elements and the functions thereof may be implemented on machines through computer executable media having a processor capable of executing program instructions stored thereon as a monolithic software structure, as standalone software modules, or as modules that employ external routines, code, services, and so forth, or any combination of these, and all such

implementations may be within the scope of the present disclosure. Examples of such machines may include, but may not be limited to, personal digital assistants, laptops, personal computers, mobile phones, other handheld computing devices, medical equipment, wired or wireless communication devices, transducers, chips, calculators, satellites, tablet PCs, electronic books, gadgets, electronic devices, devices having artificial intelligence, computing devices, networking equipment, servers, routers and the like. Furthermore, the elements depicted in the flow chart and block diagrams or any other logical component may be implemented on a machine capable of executing program instructions. Thus, while the foregoing drawings and descriptions set forth functional aspects of the disclosed systems, no particular arrangement of software for implementing these functional aspects should be inferred from these descriptions unless explicitly stated or otherwise clear from the context. Similarly, it may be appreciated that the various steps identified and described above may be varied, and that the order of steps may be adapted to particular applications of the techniques disclosed herein. All such variations and modifications are intended to fall within the scope of this disclosure. As such, the depiction and/or description of an order for various steps should not be understood to require a particular order of execution for those steps, unless required by a particular application, or explicitly stated or otherwise clear from the context.

[00225] The methods and/or processes described above, and steps thereof, may be realized in hardware, software or any combination of hardware and software suitable for a particular application. The hardware may include a general purpose computer and/or dedicated computing device or specific computing device or particular aspect or component of a specific computing device. The processes may be realized in one or more microprocessors, microcontrollers, embedded microcontrollers, programmable digital signal processors or other programmable device, along with internal and/or external memory. The processes may also, or instead, be embodied in an application specific integrated circuit, a

programmable gate array, programmable array logic, or any other device or combination of devices that may be configured to process electronic signals. It may further be appreciated that one or more of the processes may be realized as a computer executable code capable of being executed on a machine readable medium.

[00226] The computer executable code may be created using a structured programming language such as C, an object oriented programming language such as C++, or any other high-level or low-level programming language (including assembly languages, hardware description languages, and database programming languages and technologies) that may be stored, compiled or interpreted to run on one of the above devices, as well as heterogeneous combinations of processors, processor architectures, or combinations of different hardware and software, or any other machine capable of executing program instructions.

[00227] Thus, in one aspect, each method described above and combinations thereof may be embodied in computer executable code that, when executing on one or more computing devices, performs the steps thereof. In another aspect, the methods may be embodied in systems that perform the steps thereof, and may be distributed across devices in a number of ways, or all of the functionality may be integrated into a dedicated, standalone device or other hardware. In another aspect, the means for performing the steps associated with the processes described above may include any of the hardware and/or software described above. All such permutations and combinations are intended to fall within the scope of the present disclosure.

[00228] While the methods and systems described herein have been disclosed in connection with certain preferred embodiments shown and described in detail, various modifications and improvements thereon may become readily apparent to those skilled in the art. Accordingly, the spirit and scope of the methods and systems described herein is not to

be limited by the foregoing examples, but is to be understood in the broadest sense allowable by law.

[00229] All documents referenced herein are hereby incorporated by reference in their entirety.

CLAIMS:

What is claimed is:

1. A method, comprising:

taking a video feed, a portion of which comprises an event;

taking information associated with a source of the video feed;

using machine learning to develop a three-dimensional spatiotemporal understanding of the event based on the video feed and the information associated with the source, wherein the machine learning develops the three-dimensional spatiotemporal understanding by characterizing the event utilizing at least three relative motion types that relate multiple features visible in the video feed, the types selected from the list consisting of:

relative direction of motion of at least two visible features,
duration of relative motion of visible features with respect to each other,
rate of motion of at least two visible features with respect to each other,
acceleration of motion of at least two visible features with respect to each other,
projected point of intersection of at least two visible features with respect to each other, and
separation distance between at least two visible features with respect to each other;

automatically, under computer control, aligning the video feed with the understanding; and

producing a transformed video feed that includes at least one highlight of the event that is extracted from the video feed based on the machine learning of the event.

2. A method of claim 1, wherein the event is a sporting event.

3. A method of claim 1, further comprising:

performing automatic recognition of a camera position based, at least in part, on a scene in the video feed; and

augmenting the video feed with at least one of additional imagery and graphics rendered within a 3D space of the scene.

4. A method of claim 1, wherein the transformed video feed creates a highlight video feed of video for a defined set of players.

5. A method of claim 1, further comprising delivering the transformed video feed to at least one of an inbox, a mobile device, a table, an application, a scoreboard, a Jumbotron board, a video board, and a television network.

6. A method of claim 1, wherein developing an understanding comprises applying machine learning to determine at least one spatiotemporal pattern of the event, the understanding formed by a relationship between an actor visible in the video feed and a projected location of at least one actor.

7. A method of claim 6, further comprising using a human validation process to at least one of validate and teach the machine learning of the spatiotemporal pattern.

8. A method of claim 6, further comprising:

taking data relating to a known configuration of a venue where the event takes place; and

automatically, under computer control, recognizing a camera pose based on the video feed and the known configuration.

9. A method of claim 1, wherein the machine learning to develop the understanding applies an actor state transition model that combines transition probabilities of the model learned empirically from training data and observed features of movement of actors/objects, the model indicating a likelihood of an actor in an event transitioning between states.

10. A method of claim 6, further comprising presenting at least one metric in the augmented feed based on the determined spatiotemporal pattern.

11. A method of claim 10, further comprising enabling a user to interact with at least one of the video feed and a frame of the video feed in a 3D user interface.

12. A method, comprising:

acquiring a plurality of video feeds of an event;

acquiring information derived from a source of at least one of the plurality of video feeds;

using machine learning to develop a spatiotemporal understanding of at least a portion of the event based on the at least one of the plurality of video feeds and the information associated with the source, the machine learning accessing a library of spatiotemporal relationships among a portion of the visible elements in the at least one of the plurality of video feeds, the relationships corresponding to at least one of:

relative direction of motion of at least two visible features,

duration of relative motion of visible features with respect to each other,

rate of motion of at least two visible features with respect to each other,

acceleration of motion of at least two visible features with respect to each other,

projected point of intersection of at least two visible features with respect to each other, and

separation distance between at least two visible features with respect to each other; and

producing a video feed that comprises content of at least one of the plurality of video feeds and a reference to at least one highlight of any of the plurality of video feeds, wherein the produced video feed and the highlight are aligned based, at least in part, on the understanding.

13. A method of claim 12, wherein the understanding comprises a likelihood of an actor in an event transitioning between states as determined by an actor state transition model that combines transition probabilities of the model learned empirically from training data, and observed features of movement of actors/objects.

14. A method of claim 12, wherein the produced video feed creates a highlight video feed for a defined set of players.

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15. A method of claim 12, further comprising:

performing automatic recognition of a camera position based, at least in part, on a scene in any of the plurality of video feeds; and

augmenting the produced video feed with at least one of additional imagery and graphics rendered within a 3D space of the scene.

16. A method of claim 15, wherein performing automatic recognition of a camera position is based on data relating to a known configuration of a venue where the event takes place.

EAGLE STACK *100*	CUSTOMIZATION *102*	TEAM-SPECIFIC ANALYTICS, VISUALIZATIONS AND TOOLS ANALYTICS EXPORTS, CROWD-SOURCED FEEDBACK
	INTERACTION *104*	REAL-TIME INTERACTIVE TOOLS TO SLICE AND DICE DATA SHOT MATRIX, SCREEN BREAKDOWN, POSSESSION DETECTIVE
	VISUALIZATIONS *108*	DYNAMIC VISUALIZATIONS OF PATTERNS AND ANALYTICS SCATTER RANK, SHOT COMPARISON, CLIP VIEW
	ANALYTICS *110*	NEW METRICS BASED ON AI, MACHINE LEARNING SITUATIONAL EFG, VORONOI-BASED RB%
	PATTERNS *112*	INFRASTRUCTURE FOR RAPID DISCOVERY OF NEW PATTERNS SCREENS, DEFENSE, FACE-UP, POST-UP, TRANSITION,.....
	EVENTS *114*	CREATE NEW EVENTS AND CORRECT CURRENT ERRORS ANALYZE ACCURACY OF MARKINGS [FGA,DRB,...]
	DATA *118*	CATALOGUE, CORRECT AND ADAPT RAW DATA [X,Y,Z,T] MANAGE ONLINE WAREHOUSING IN THE CLOUD

FIG. 1

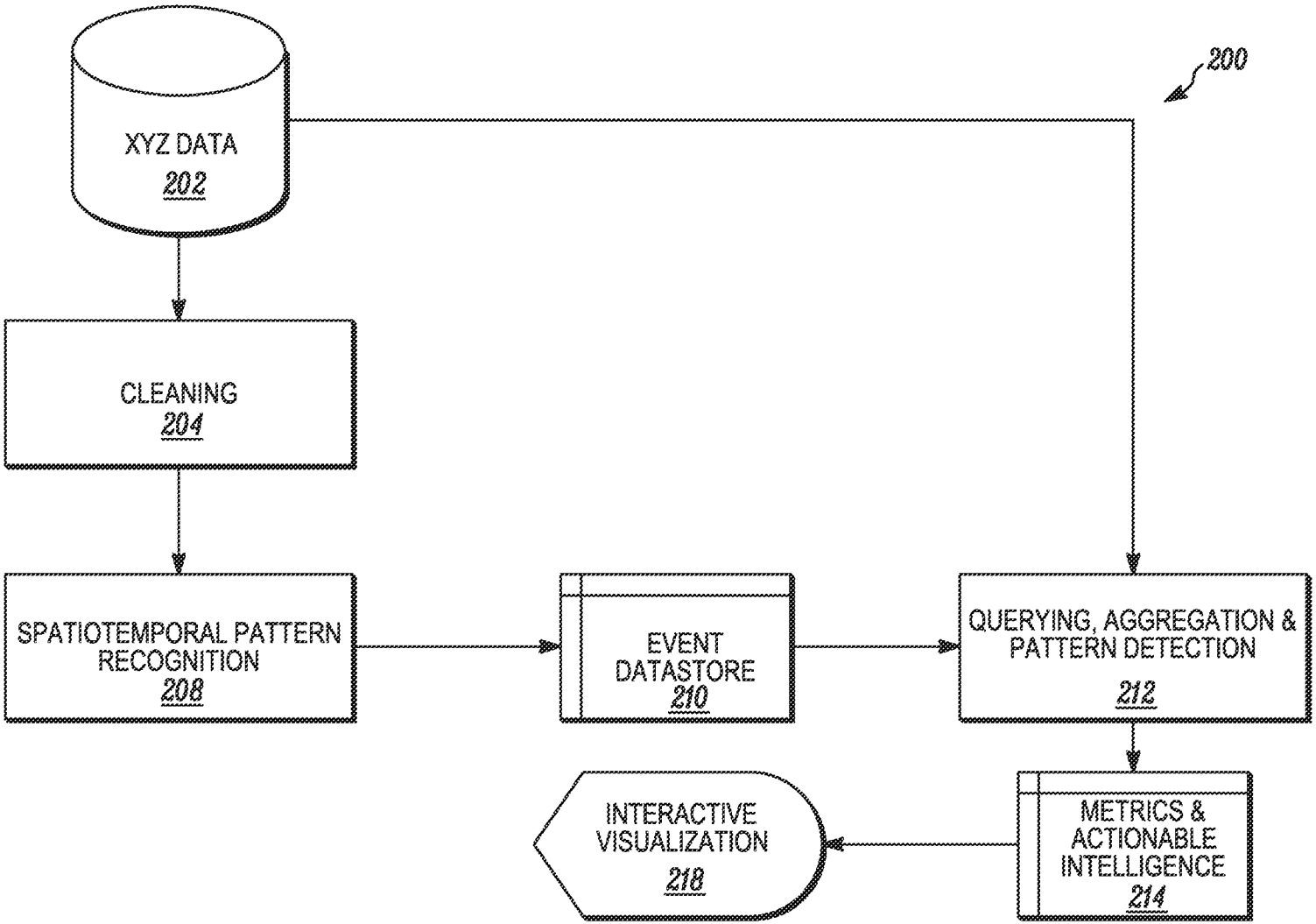

200
XYZ DATA
202
CLEANING
204
SPATIOTEMPORAL PATTERN RECOGNITION
208
EVENT DATASTORE
210
QUERYING, AGGREGATION & PATTERN DETECTION
212
METRICS & ACTIONABLE INTELLIGENCE
214
INTERACTIVE VISUALIZATION
218

FIG. 2

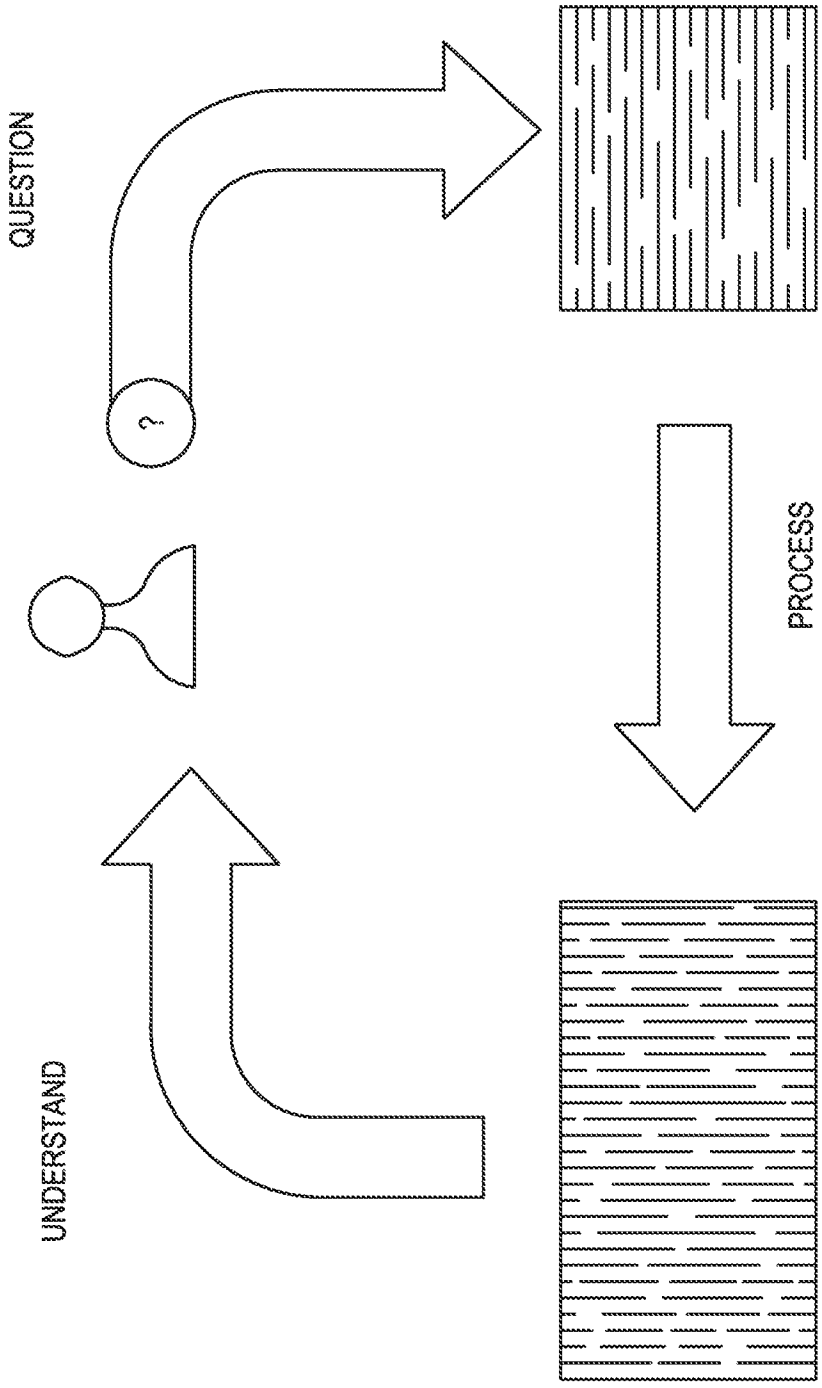


FIG. 3

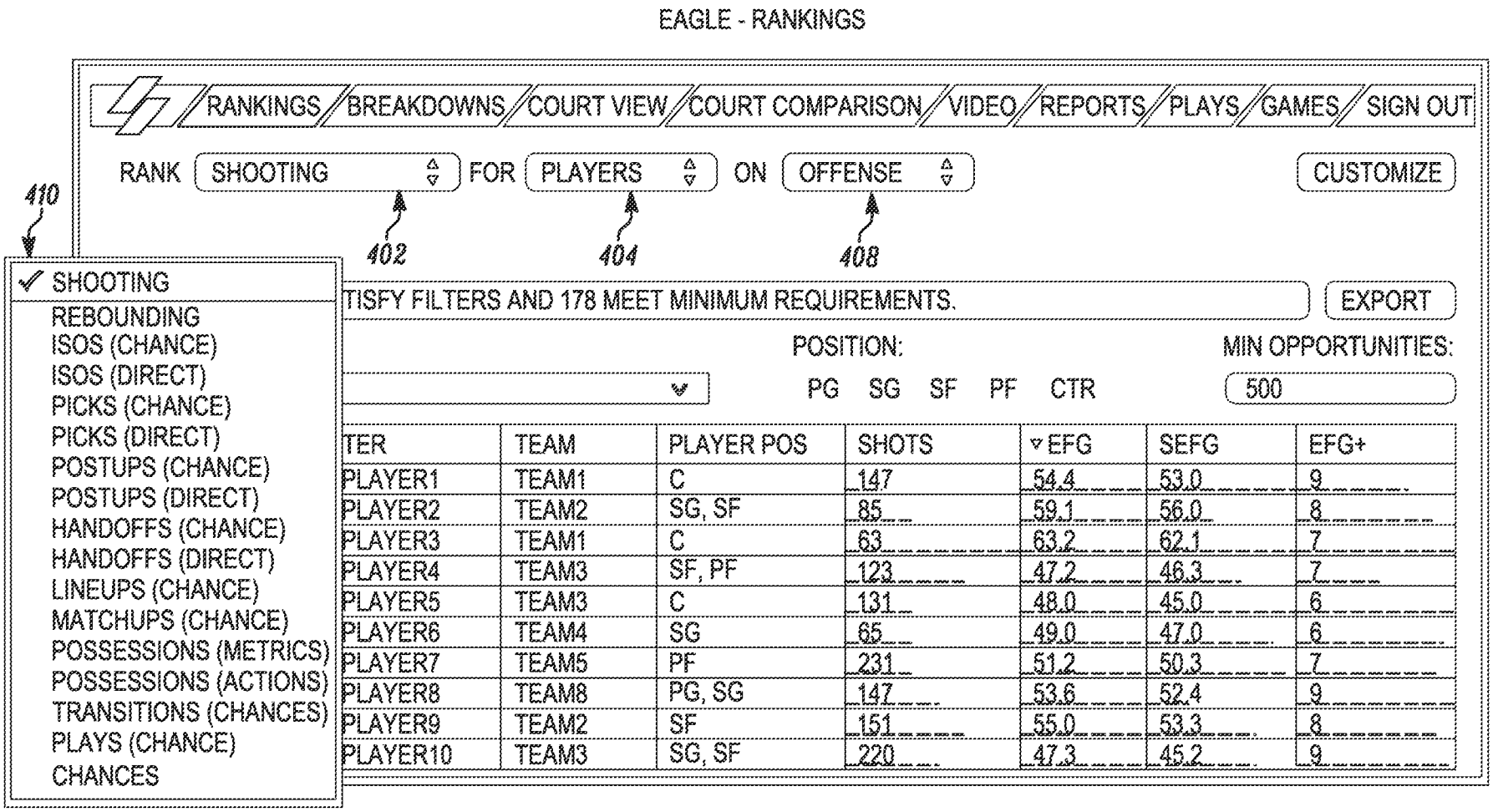
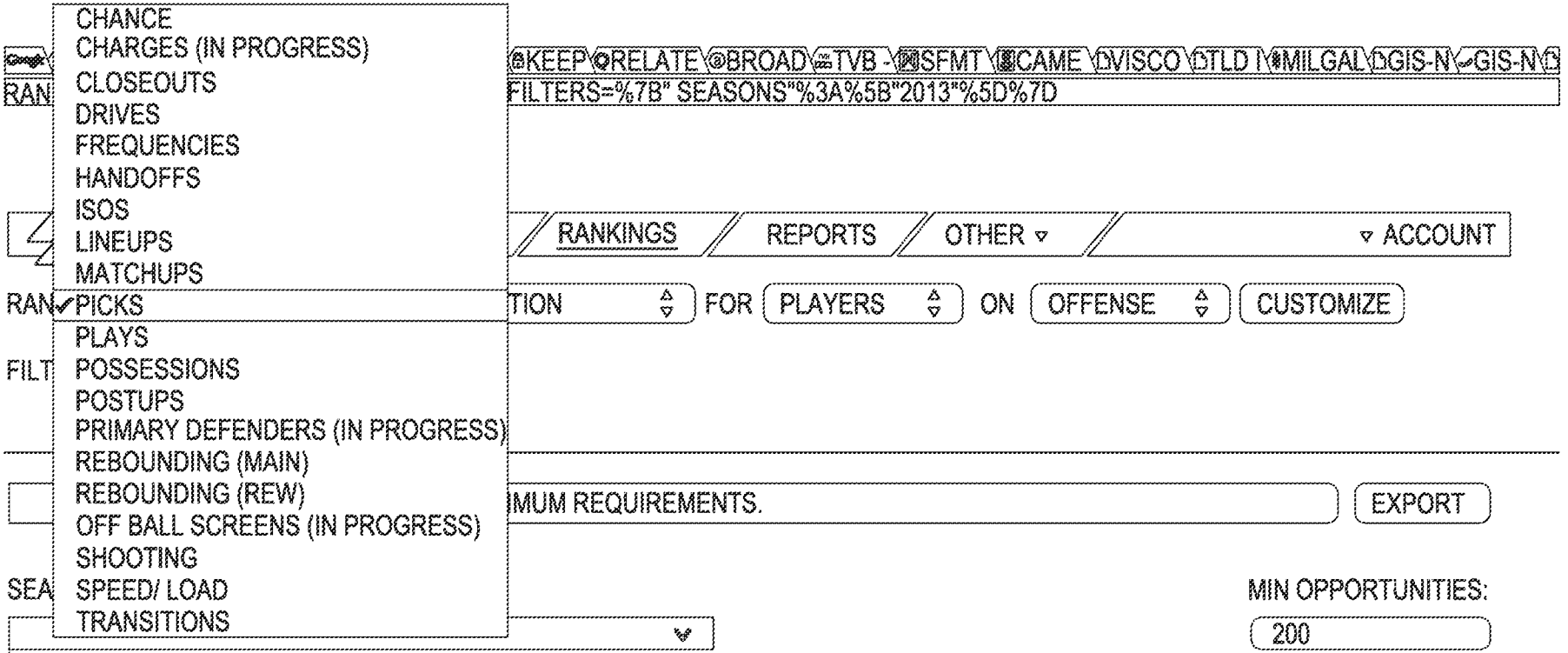

EAGLE - RANKINGS
RANKINGS
BREAKDOWNS
COURT VIEW
COURT COMPARISON
VIDEO
REPORTS
PLAYS
GAMES
SIGN OUT
RANK
SHOOTING
FOR
PLAYERS
ON
OFFENSE
CUSTOMIZE
410
402
404
408
SHOOTING
REBOUNDING
ISOS (CHANCE)
ISOS (DIRECT)
PICKS (CHANCE)
PICKS (DIRECT)
POSTUPS (CHANCE)
POSTUPS (DIRECT)
HANDOFFS (CHANCE)
HANDOFFS (DIRECT)
LINEUPS (CHANCE)
MATCHUPS (CHANCE)
POSSESSIONS (METRICS)
POSSESSIONS (ACTIONS)
TRANSITIONS (CHANCES)
PLAYS (CHANCE)
CHANCES
TISFY FILTERS AND 178 MEET MINIMUM REQUIREMENTS.
EXPORT
POSITION:
PG SG SF PF CTR
MIN OPPORTUNITIES:
500
TER | TEAM | PLAYER POS | SHOTS | EFG | SEFG | EFG+
PLAYER1 | TEAM1 | C | 147 | 54.4 | 53.0 | 9
PLAYER2 | TEAM2 | SG, SF | 85 | 59.1 | 56.0 | 8
PLAYER3 | TEAM1 | C | 63 | 63.2 | 62.1 | 7
PLAYER4 | TEAM3 | SF, PF | 123 | 47.2 | 46.3 | 7
PLAYER5 | TEAM3 | C | 131 | 48.0 | 45.0 | 6
PLAYER6 | TEAM4 | SG | 65 | 49.0 | 47.0 | 6
PLAYER7 | TEAM5 | PF | 231 | 51.2 | 50.3 | 7
PLAYER8 | TEAM8 | PG, SG | 147 | 53.6 | 52.4 | 9
PLAYER9 | TEAM2 | SF | 151 | 55.0 | 53.3 | 8
PLAYER10 | TEAM3 | SG, SF | 220 | 47.3 | 45.2 | 9

FIG. 4



	BALLHANDLER	SCREENER	TEAM	ACTI...	D	DA%	DPT...	I	IA%	IPTS/A	V	VA%	PTS/A	GAMES	DP/G	P/G	VIDEO
1	PLAYER1	PLAYER1'	1	250	168	67.200	1.244	67	26.800	0.940	235	94.000	1.157	56	3.000	4.464	WATCH
2	PLAYER2	PLAYER2'	2	851	606	71.210	1.144	170	19.976	0.871	776	91.187	1.084	76	7.974	11.197	WATCH
3	PLAYER3	PLAYER3'	3	372	293	78.763	1.126	65	17.473	0.908	358	96.237	1.087	80	3.663	4.650	WATCH
4	PLAYER4	PLAYER4'	4	305	214	70.164	1.117	68	22.295	0.853	282	92.459	1.053	74	2.892	4.122	WATCH

FIG. 5A

5	PLAYER5	PLAYER5'	5	334	153	45.808	1.098	154	46.108	0.916	307	91.916	1.007	67	2.284	4.985	WATCH
6	PLAYER6	PLAYER6'	3	205	159	77.561	1.094	31	15.122	0.968	190	92.683	1.074	63	2.524	3.254	WATCH
7	PLAYER7	PLAYER7'	6	208	134	64.423	1.090	61	29.327	0.820	195	93.750	1.005	23	5.826	9.043	WATCH
8	PLAYER8	PLAYER8'	7	367	229	62.398	1.087	114	31.063	0.930	343	93.460	1.035	52	4.404	7.058	WATCH
9	PLAYER9	PLAYER9'	8	330	236	71.515	1.085	71	21.515	0.789	307	93.030	1.016	64	3.688	5.156	WATCH
10	PLAYER10	PLAYER10'	9	294	189	64.286	1.085	86	29.252	0.930	275	93.537	1.036	46	4.109	6.391	WATCH
11	PLAYER11	PLAYER11'	10	206	133	64.563	1.083	61	29.612	0.967	194	94.175	1.046	24	5.542	8.538	WATCH
12	PLAYER12	PLAYER12'	5	253	160	63.241	1.063	78	30.830	1.141	238	94.071	1.088	52	3.077	4.865	WATCH
13	PLAYER13	PLAYER13'	1	263	150	57.034	1.060	96	36.502	0.813	246	93.536	0.963	51	2.941	5.157	WATCH
14	PLAYER14	PLAYER14'	11	216	151	69.907	1.060	55	25.463	1.109	206	95.370	1.073	49	3.082	4.408	WATCH
15	PLAYER15	PLAYER15'	8	272	188	69.118	1.059	65	23.897	0.692	253	93.015	0.964	49	3.837	5.551	WATCH

FIG. 5B

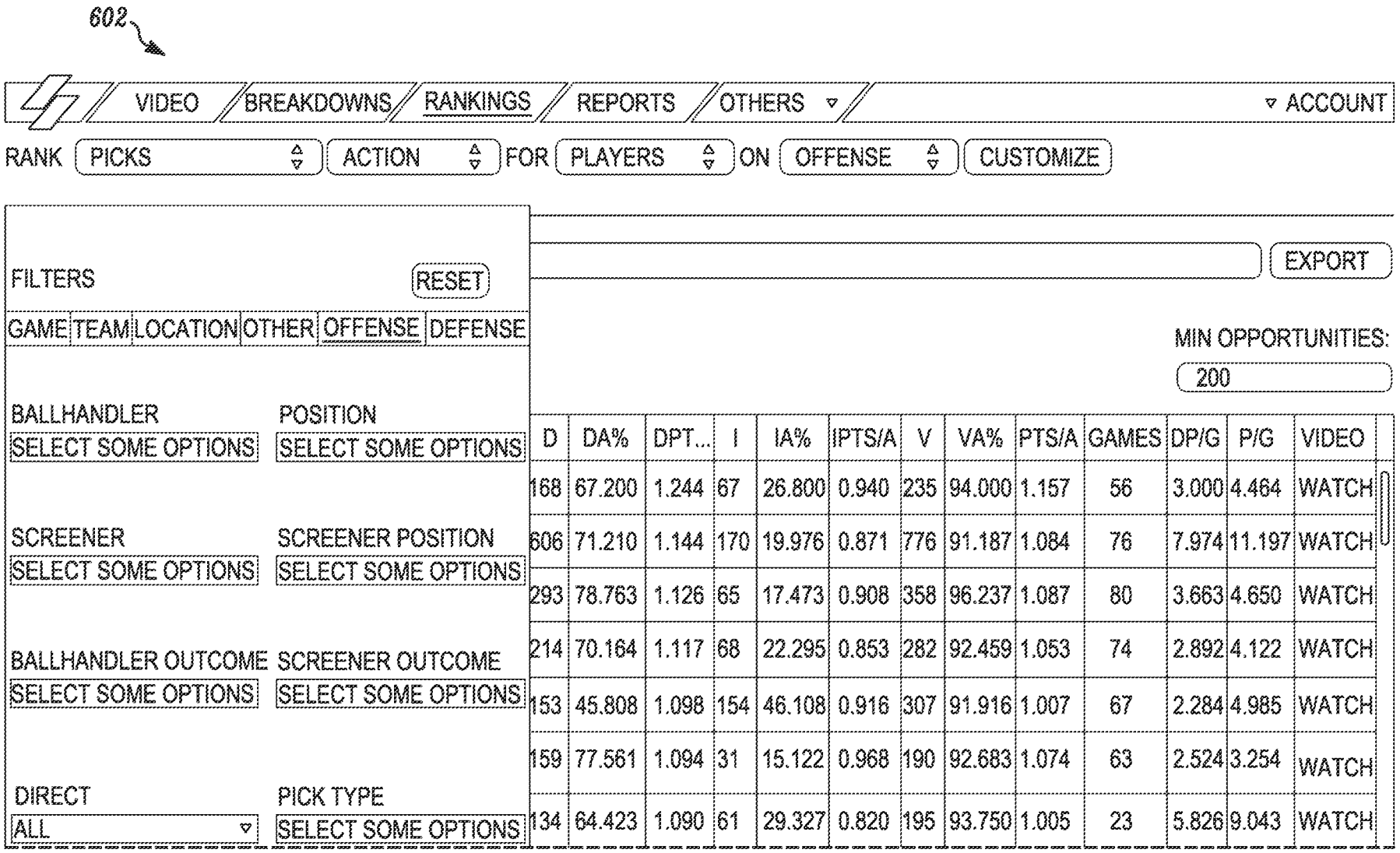

602
VIDEO
BREAKDOWNS
RANKINGS
REPORTS
OTHERS
ACCOUNT
RANK
PICKS
ACTION
FOR
PLAYERS
ON
OFFENSE
CUSTOMIZE
FILTERS
RESET
EXPORT
GAME
TEAM
LOCATION
OTHER
OFFENSE
DEFENSE
MIN OPPORTUNITIES:
200
BALLHANDLER
SELECT SOME OPTIONS
POSITION
SELECT SOME OPTIONS
SCREENER
SELECT SOME OPTIONS
SCREENER POSITION
SELECT SOME OPTIONS
BALLHANDLER OUTCOME
SELECT SOME OPTIONS
SCREENER OUTCOME
SELECT SOME OPTIONS
DIRECT
ALL
PICK TYPE
SELECT SOME OPTIONS
D DA% DPT... I IA% IPTS/A V VA% PTS/A GAMES DP/G P/G VIDEO
168 67.200 1.244 67 26.800 0.940 235 94.000 1.157 56 3.000 4.464 WATCH
606 71.210 1.144 170 19.976 0.871 776 91.187 1.084 76 7.974 11.197 WATCH
293 78.763 1.126 65 17.473 0.908 358 96.237 1.087 80 3.663 4.650 WATCH
214 70.164 1.117 68 22.295 0.853 282 92.459 1.053 74 2.892 4.122 WATCH
153 45.808 1.098 154 46.108 0.916 307 91.916 1.007 67 2.284 4.985 WATCH
159 77.561 1.094 31 15.122 0.968 190 92.683 1.074 63 2.524 3.254 WATCH
134 64.423 1.090 61 29.327 0.820 195 93.750 1.005 23 5.826 9.043 WATCH

FIG. 6A

POP/ROLL: SELECT SOME OPTIONS

DIRECTION: EITHER

WING/ MIDDLE: ALL

UPDATE

					229	62.398	1.087	114	31.063	0.930	343	93.460	1.035	52	4.404	7.058	WATCH
					236	71.515	1.085	71	21.515	0.789	307	93.030	1.016	64	3.688	5.156	WATCH
					189	64.286	1.085	86	29.252	0.930	275	93.537	1.036	46	4.109	6.391	WATCH
					133	64.563	1.083	61	29.612	0.967	194	94.175	1.046	24	5.542	8.538	WATCH
					160	63.241	1.063	78	30.830	1.141	238	94.071	1.088	52	3.077	4.865	WATCH
					150	57.034	1.060	96	36.502	0.813	246	93.536	0.963	51	2.941	5.157	WATCH
14	PLAYER14	PLAYER14'	11	216	151	69.907	1.060	55	25.463	1.109	206	95.370	1.073	49	3.082	4.408	WATCH
15	PLAYER15	PLAYER15'	12	272	188	69.118	1.059	65	23.897	0.692	253	93.015	0.964	49	3.837	5.551	WATCH
16	PLAYER16	PLAYER16'	13	241	172	71.369	1.058	52	21.577	0.885	224	92.946	1.018	71	2.423	3.394	WATCH
17	PLAYER17	PLAYER17'	4	895	541	60.447	1.059	299	33.408	0.953	840	93.855	1.018	86	6.291	10.407	WATCH

FIG. 6B

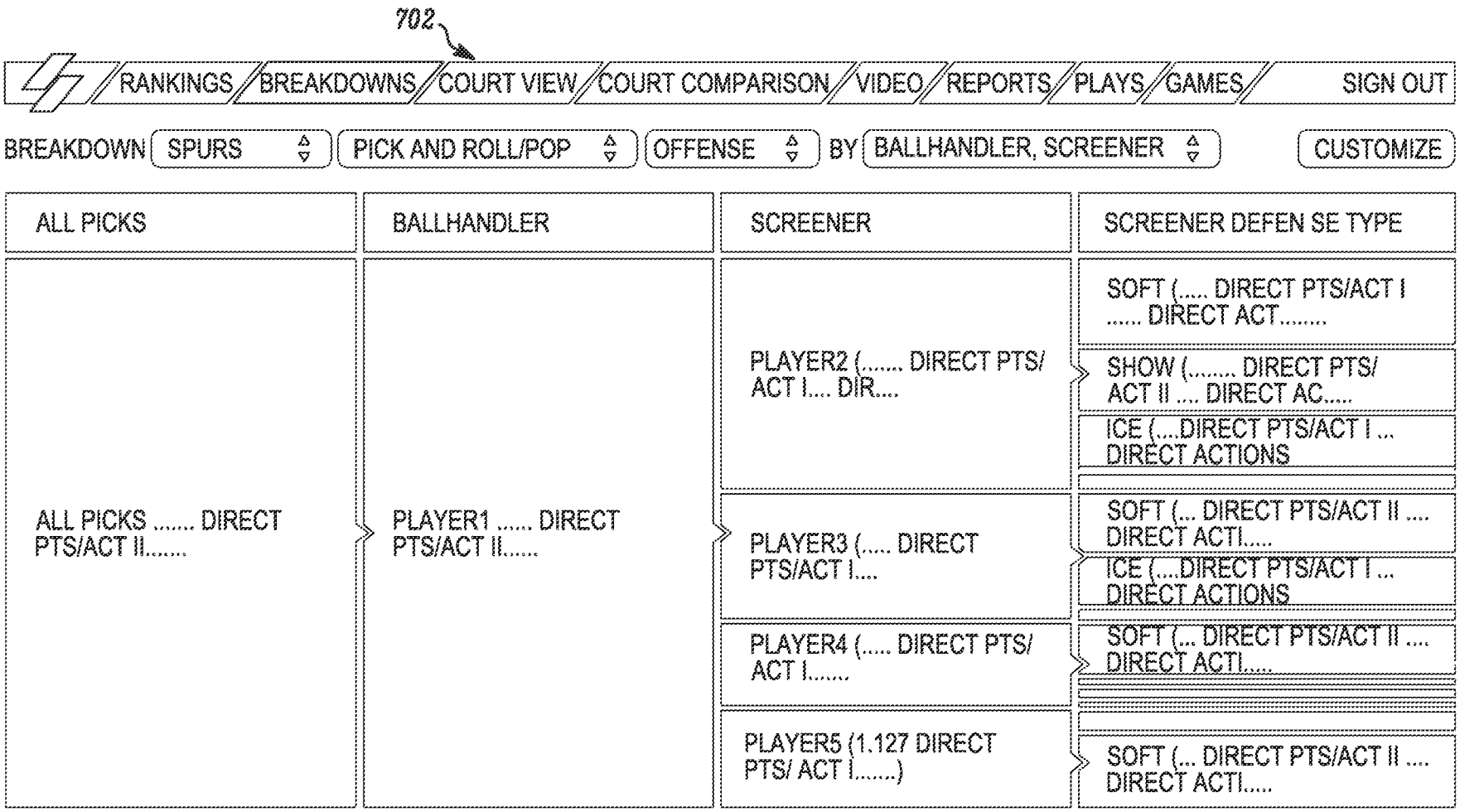

702
RANKINGS
BREAKDOWNS
COURT VIEW
COURT COMPARISON
VIDEO
REPORTS
PLAYS
GAMES
SIGN OUT
BREAKDOWN
SPURS
PICK AND ROLL/POP
OFFENSE
BY
BALLHANDLER, SCREENER
CUSTOMIZE
ALL PICKS
BALLHANDLER
SCREENER
SCREENER DEFEN SE TYPE
ALL PICKS ..... DIRECT PTS/ACT II.....
PLAYER1 ..... DIRECT PTS/ACT II.....
PLAYER2 (..... DIRECT PTS/ ACT I.... DIR....
PLAYER3 (..... DIRECT PTS/ACT I....
PLAYER4 (..... DIRECT PTS/ ACT I.....
PLAYER5 (1.127 DIRECT PTS/ ACT I.....)
SOFT (..... DIRECT PTS/ACT I ..... DIRECT ACT.....
SHOW (..... DIRECT PTS/ ACT II .... DIRECT AC.....
ICE (....DIRECT PTS/ACT I ... DIRECT ACTIONS
SOFT (... DIRECT PTS/ACT II .... DIRECT ACTI.....
ICE (....DIRECT PTS/ACT I ... DIRECT ACTIONS
SOFT (... DIRECT PTS/ACT II .... DIRECT ACTI.....
SOFT (... DIRECT PTS/ACT II .... DIRECT ACTI.....

FIG. 7

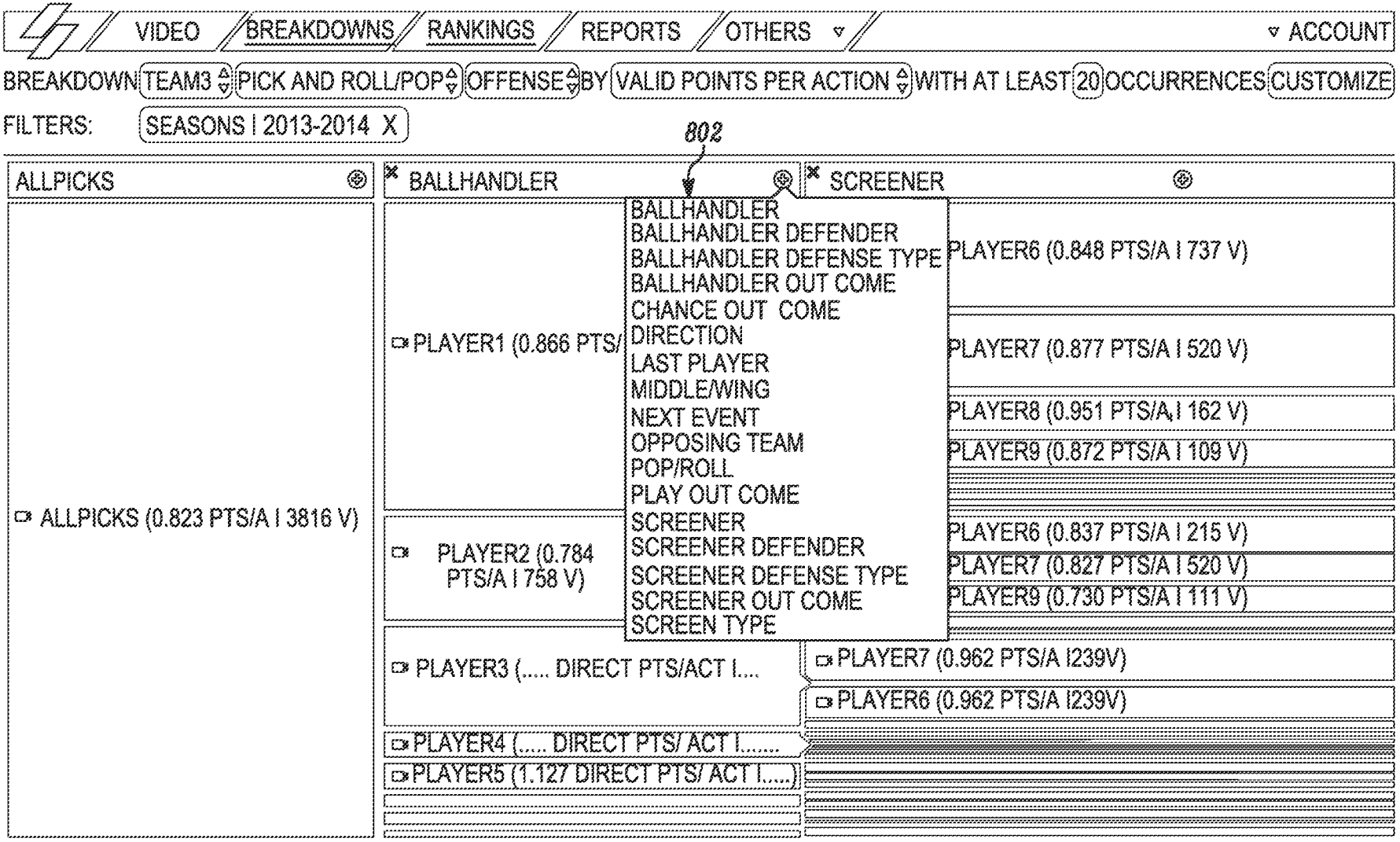

VIDEO
BREAKDOWNS
RANKINGS
REPORTS
OTHERS
ACCOUNT
BREAKDOWN TEAM3 PICK AND ROLL/POP OFFENSE BY VALID POINTS PER ACTION WITH AT LEAST 20 OCCURRENCES CUSTOMIZE
FILTERS: SEASONS | 2013-2014 X
802
ALLPICKS
BALLHANDLER
SCREENER
ALLPICKS (0.823 PTS/A | 3816 V)
PLAYER1 (0.866 PTS/
PLAYER2 (0.784 PTS/A | 758 V)
PLAYER3 (..... DIRECT PTS/ACT |....
PLAYER4 (..... DIRECT PTS/ ACT |.....
PLAYER5 (1.127 DIRECT PTS/ ACT |.....)
BALLHANDLER
BALLHANDLER DEFENDER
BALLHANDLER DEFENSE TYPE
BALLHANDLER OUT COME
CHANCE OUT COME
DIRECTION
LAST PLAYER
MIDDLE/WING
NEXT EVENT
OPPOSING TEAM
POP/ROLL
PLAY OUT COME
SCREENER
SCREENER DEFENDER
SCREENER DEFENSE TYPE
SCREENER OUT COME
SCREEN TYPE
PLAYER6 (0.848 PTS/A | 737 V)
PLAYER7 (0.877 PTS/A | 520 V)
PLAYER8 (0.951 PTS/A| 162 V)
PLAYER9 (0.872 PTS/A | 109 V)
PLAYER6 (0.837 PTS/A | 215 V)
PLAYER7 (0.827 PTS/A | 520 V)
PLAYER9 (0.730 PTS/A | 111 V)
PLAYER7 (0.962 PTS/A |239V)
PLAYER6 (0.962 PTS/A |239V)

FIG. 8

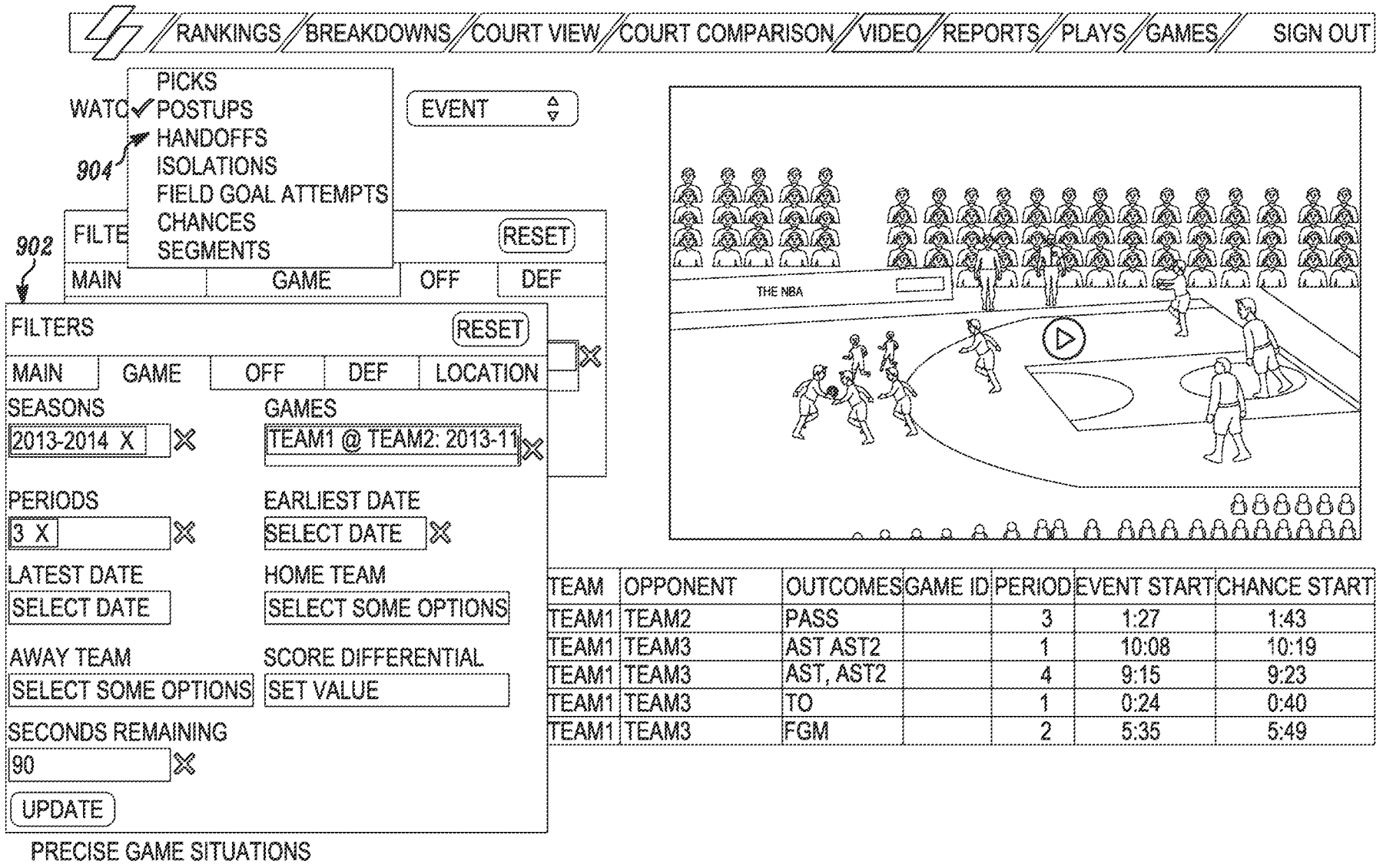

RANKINGS
BREAKDOWNS
COURT VIEW
COURT COMPARISON
VIDEO
REPORTS
PLAYS
GAMES
SIGN OUT
PICKS
POSTUPS
HANDOFFS
ISOLATIONS
FIELD GOAL ATTEMPTS
CHANCES
SEGMENTS
904
902
EVENT
RESET
MAIN
GAME
OFF
DEF
LOCATION
FILTERS
SEASONS
2013-2014
GAMES
TEAM1 @ TEAM2: 2013-11
PERIODS
3
EARLIEST DATE
SELECT DATE
LATEST DATE
SELECT DATE
HOME TEAM
SELECT SOME OPTIONS
AWAY TEAM
SELECT SOME OPTIONS
SCORE DIFFERENTIAL
SET VALUE
SECONDS REMAINING
90
UPDATE
THE NBA
TEAM
OPPONENT
OUTCOMES
GAME ID
PERIOD
EVENT START
CHANCE START
TEAM1
TEAM2
PASS
3
1:27
1:43
TEAM1
TEAM3
AST AST2
1
10:08
10:19
TEAM1
TEAM3
AST, AST2
4
9:15
9:23
TEAM1
TEAM3
TO
1
0:24
0:40
TEAM1
TEAM3
FGM
2
5:35
5:49
PRECISE GAME SITUATIONS

FIG. 9

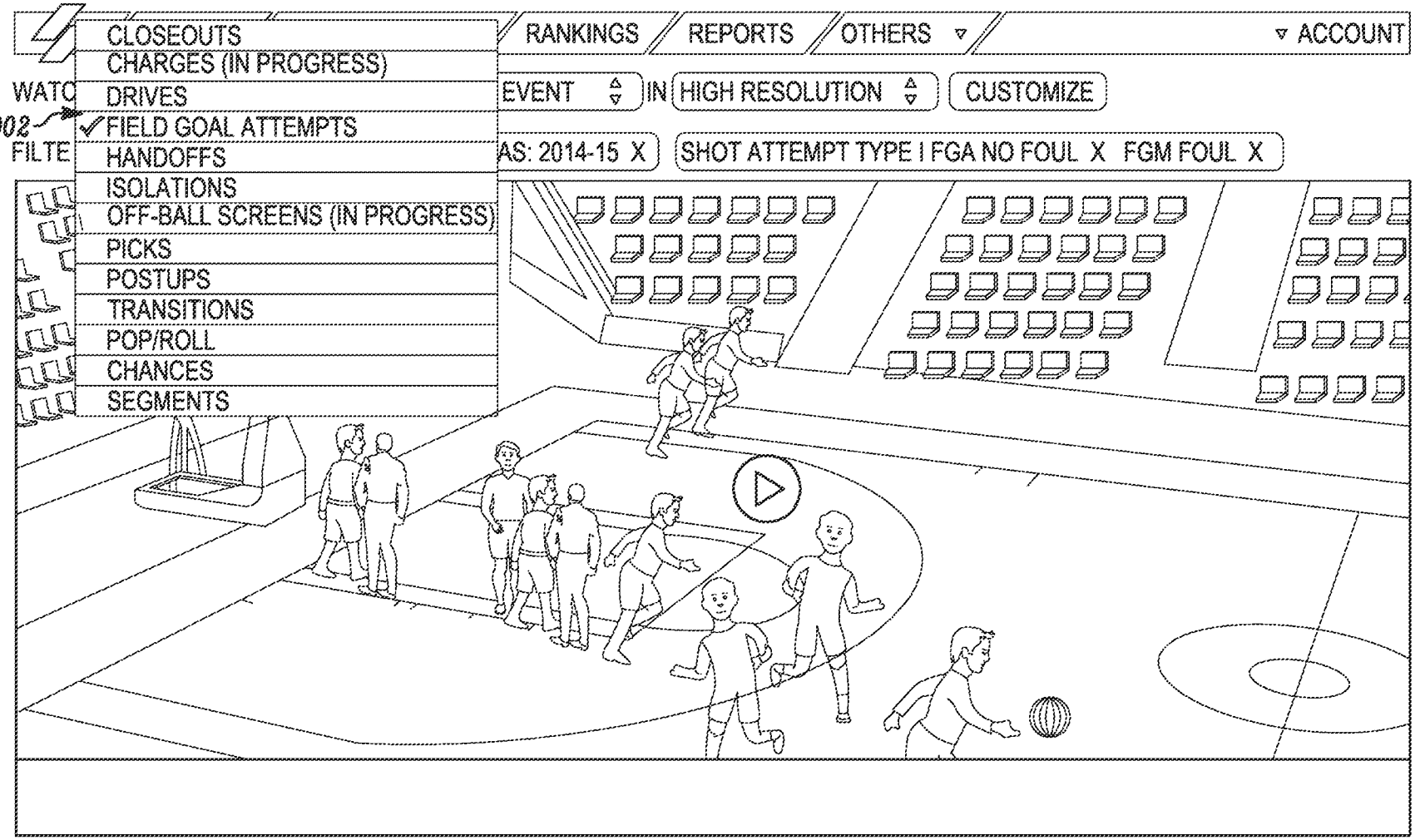
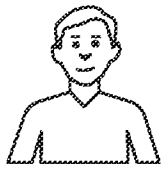

CLOSEOUTS
CHARGES (IN PROGRESS)
DRIVES
FIELD GOAL ATTEMPTS
HANDOFFS
ISOLATIONS
OFF-BALL SCREENS (IN PROGRESS)
PICKS
POSTUPS
TRANSITIONS
POP/ROLL
CHANCES
SEGMENTS
RANKINGS
REPORTS
OTHERS
ACCOUNT
WATC
1002
FILTE
EVENT
IN
HIGH RESOLUTION
CUSTOMIZE
AS: 2014-15 X
SHOT ATTEMPT TYPE I FGA NO FOUL X FGM FOUL X

FIG. 10

VIDEO | BREAKDOWNS | RANKINGS | REPORTS | OTHER | ACCOUNT

GENERATE PDF



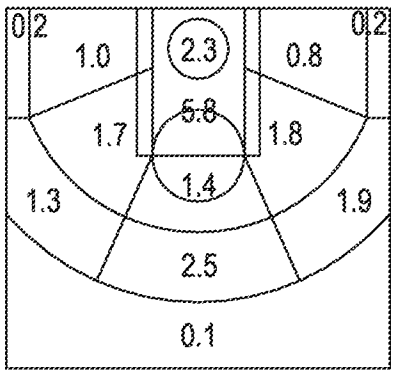
PLAYER4
#35 | SF, SG, PF | 6'9", 215 LBS | TEAM5

	MP	FG	FGA	FG%	3P	3PA	3P%	2P	2PA	2P%	FT	FTA	FT%	ORB	DRB	TRB	AST	STL	BLK	TOV	PTS
PLAYER	38.5	10.5	20.8	50.3	2.4	6.1	39.1	8.1	14.8	54.9	8.7	9.9	87.3	0.7	6.7	7.4	5.5	1.3	0.7	3.5	32.0
LG PERCENTILE	99%	100%	100%	84%	97%	97%	86%	99%	98%	88%	100%	100%	91%	55%	96%	92%	94%	91%	84%	98%	100%

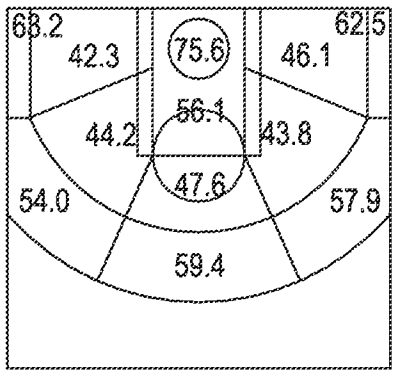
OFFENSE

1102

SHOOTING



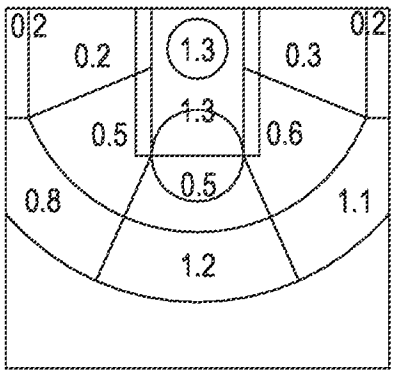
FGA/G



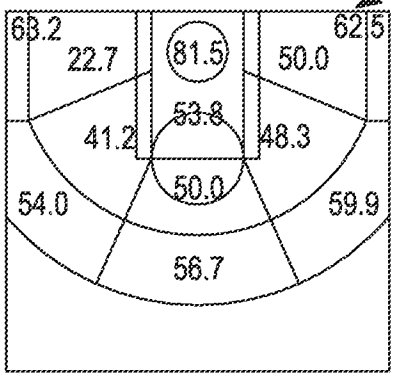
EFG%

CATCH AND SHOOT

1102



FGA/G



EFG%

SHOTS BY LOCATION

FIG. 11

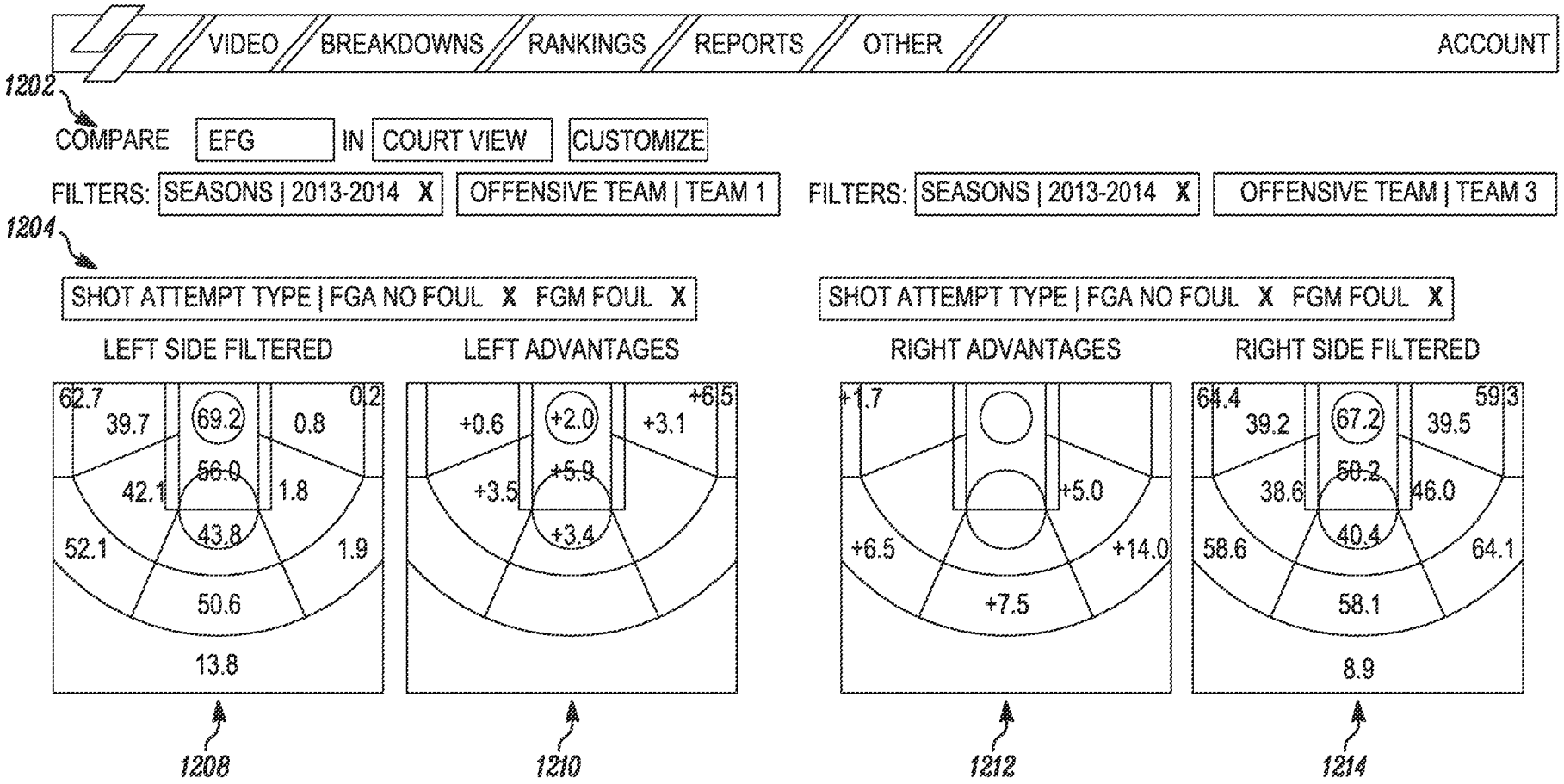


FIG. 12

PCT/US2015/018077

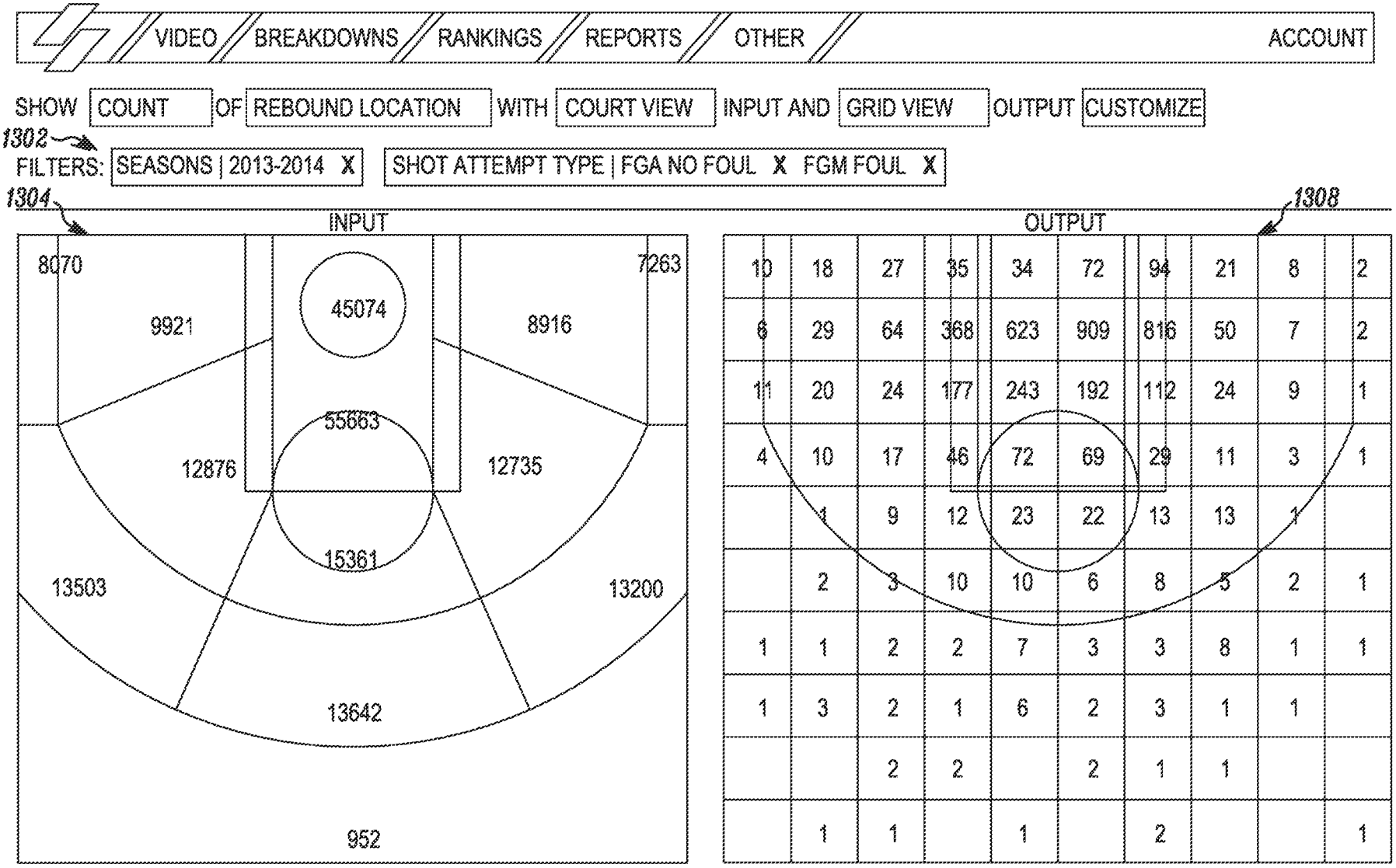

VIDEO
BREAKDOWNS
RANKINGS
REPORTS
OTHER
ACCOUNT
SHOW COUNT OF REBOUND LOCATION WITH COURT VIEW INPUT AND GRID VIEW OUTPUT CUSTOMIZE
1302
FILTERS: SEASONS | 2013-2014 X
SHOT ATTEMPT TYPE | FGA NO FOUL X FGM FOUL X
1304
INPUT
8070
7263
45074
9921
8916
55663
12876
12735
15361
13503
13200
13642
952
1308
OUTPUT
10 18 27 35 34 72 94 21 8 2
6 29 64 368 623 909 816 50 7 2
11 20 24 177 243 192 112 24 9 1
4 10 17 46 72 69 29 11 3 1
1 9 12 23 22 13 13 1
2 3 10 10 6 8 5 2 1
1 1 2 2 7 3 3 8 1 1
1 3 2 1 6 2 3 1 1
2 2 2 1 1
1 1 1 2 1

FIG. 13



play by play

NOTE: CHANGES WILL ONLY BE SAVED WHEN YOU CLICK "SUBMIT MARKINGS".

FIND & REPLACE TAGS | FIND & REPLACE TAGS

1402

DATE	PERIOD	HOME TEAM	AWAY TEAM	CLOCK	INDEX	PTS	EVENTS	DESCRIPTION	TAGS
2014/6/15	2	1	4	11:49	0	2	FGM	PLAYER1 MAKES AN ALLEY OOP DUNK 2 FEET OUT. PLAYER3 WITH THE ASSIST.	
2014/6/15	2	1	4	11:32	1	0	TO	PLAYER4 STEALS THE BALL FROM PLAYER3.	
2014/6/15	2	1	4	11:32	2	2	JMP	JUMP BALL: PLAYER2 VS PLAYER4 _PLAYER6 GAINS POSSESSION.	
2014/6/15	2	1	4	11:09	2	2	FGM	PLAYER4 MAKES A JUMP SHOT FROM 20 FEET OUT.	
2014/6/15	2	1	4	10:48	3	2	FGM	PLAYER3 MAKES A JUMP SHOT FROM 23 FEET OUT. PLAYER5 WITH THE ASSIST.	
2014/6/15	2	1	4	10:30	4	0	FGX	PLAYER4 MISSES A 3_POINT JUMP SHOT FROM 23 FEET OUT.	
2014/6/15	2	1	4	10:29	4	0	DRB	PLAYER1 WITH A DEFENSIVE REBOUND .	
2014/6/15	2	1	4	10:15	5	0	FGX	PLAYER1 MISSES A 3_POINT JUMP SHOT FROM 25 FEET OUT .	

FIG. 14

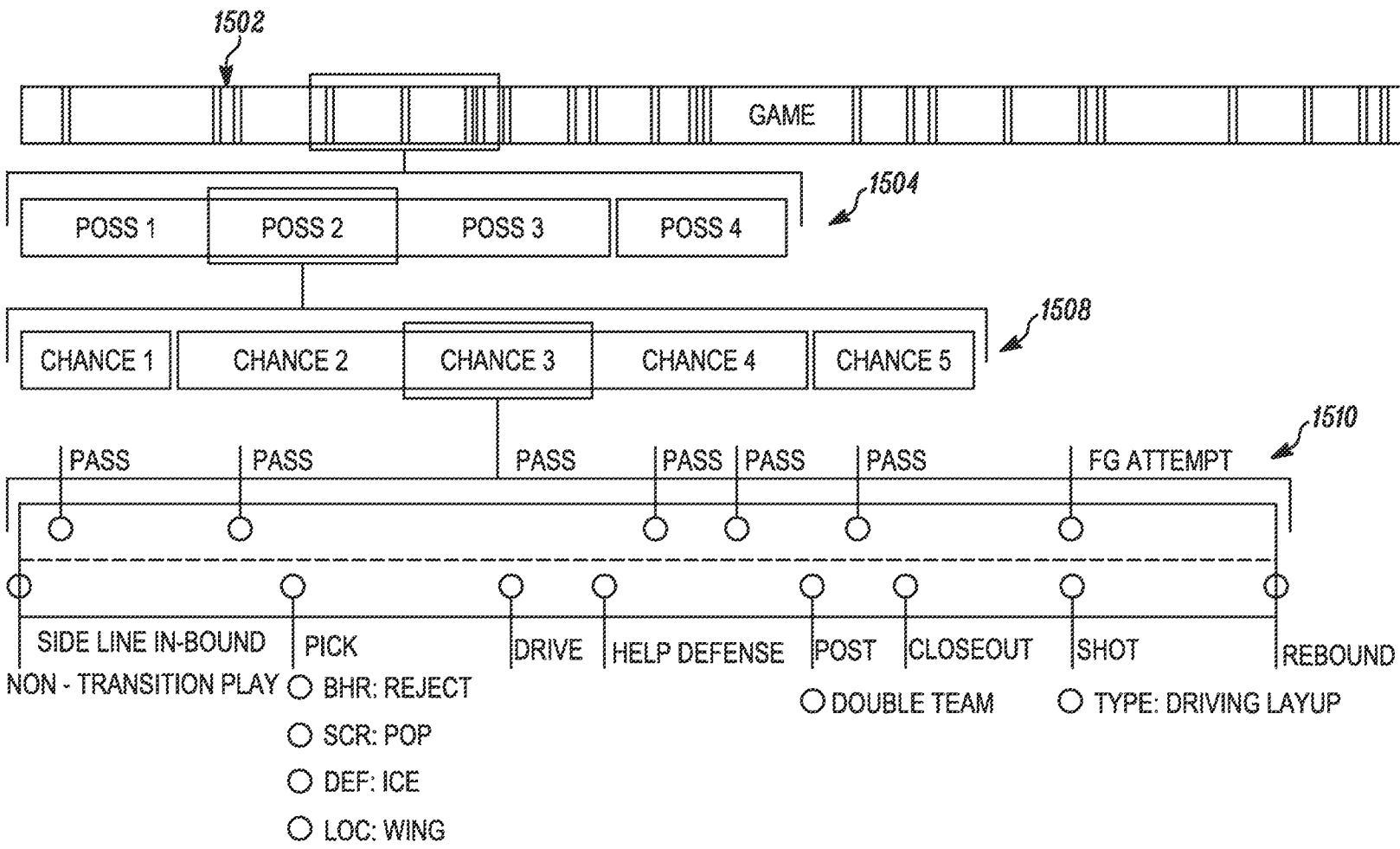

1502
GAME
1504
POSS 1
POSS 2
POSS 3
POSS 4
1508
CHANCE 1
CHANCE 2
CHANCE 3
CHANCE 4
CHANCE 5
1510
PASS
PASS
PASS
PASS
PASS
PASS
FG ATTEMPT
SIDE LINE IN-BOUND
NON - TRANSITION PLAY
PICK
BHR: REJECT
SCR: POP
DEF: ICE
LOC: WING
DRIVE
HELP DEFENSE
POST
DOUBLE TEAM
CLOSEOUT
SHOT
TYPE: DRIVING LAYUP
REBOUND

FIG. 15

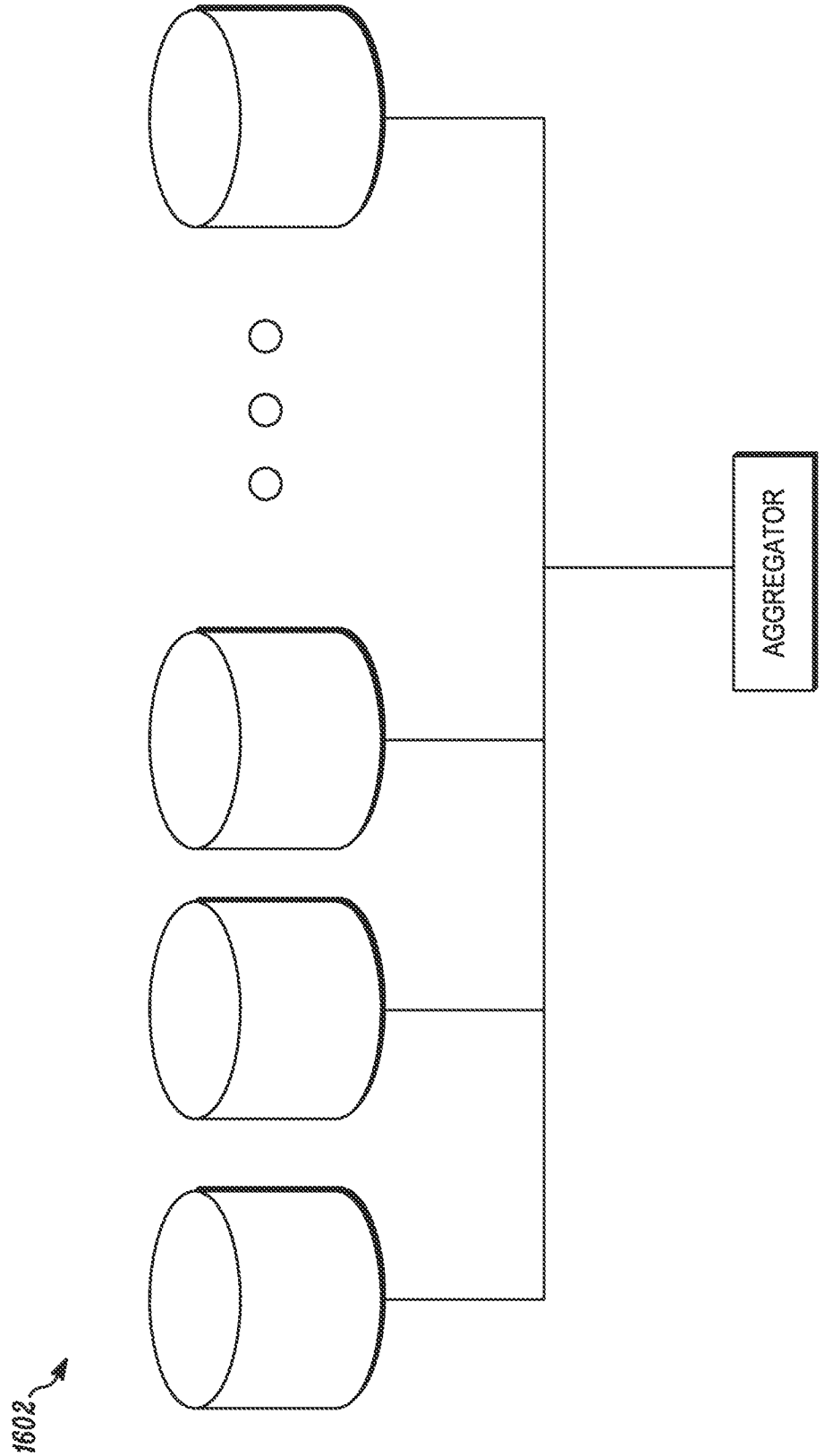


FIG. 16

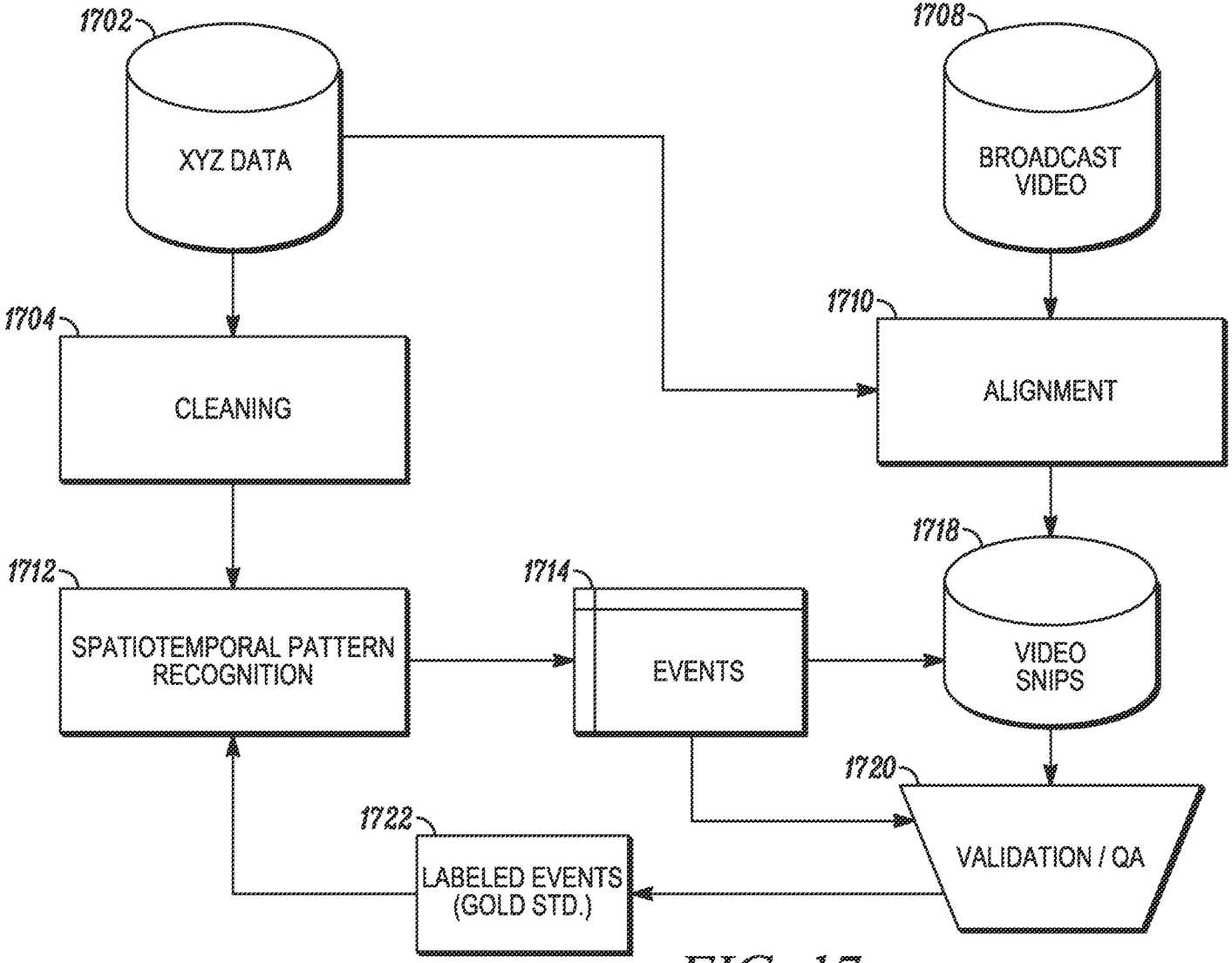

1702
XYZ DATA
1708
BROADCAST VIDEO
1704
CLEANING
1710
ALIGNMENT
1712
SPATIOTEMPORAL PATTERN RECOGNITION
1714
EVENTS
1718
VIDEO SNIPS
1720
VALIDATION / QA
1722
LABELED EVENTS (GOLD STD.)

FIG. 17

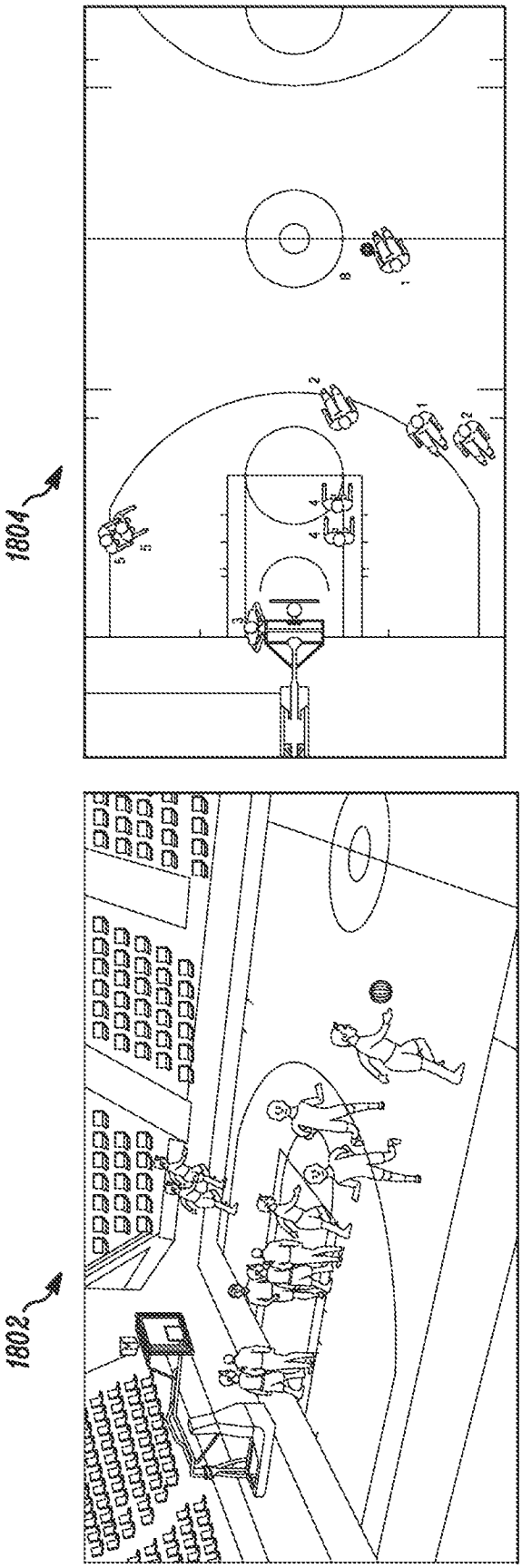


FIG. 18

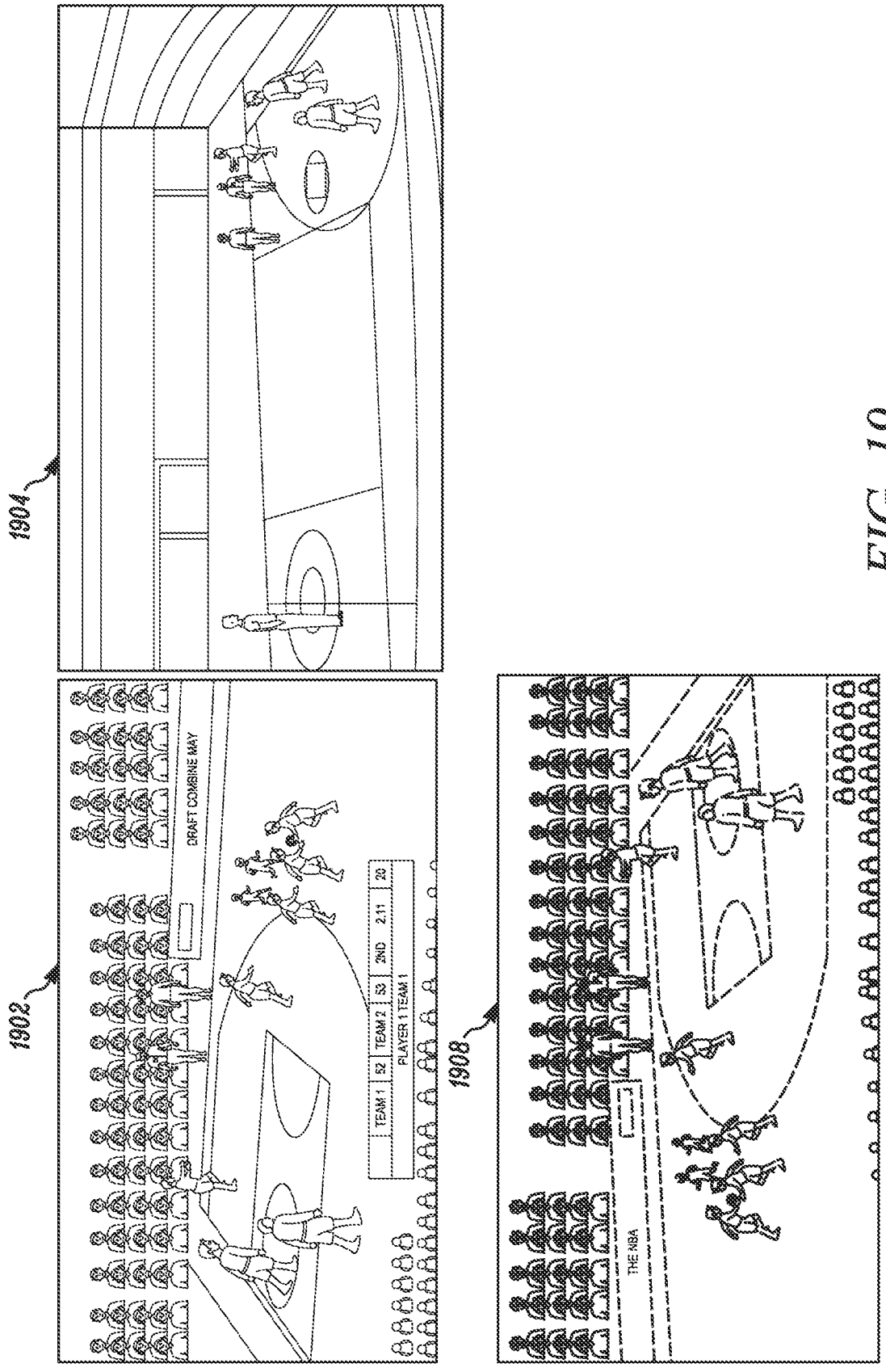

1904
1902
1908
DRAFT COMBINE MAY
TEAM 1
52
TEAM 2
53
2ND
2:11
20
PLAYER 1 TEAM 1
THE NBA

FIG. 19

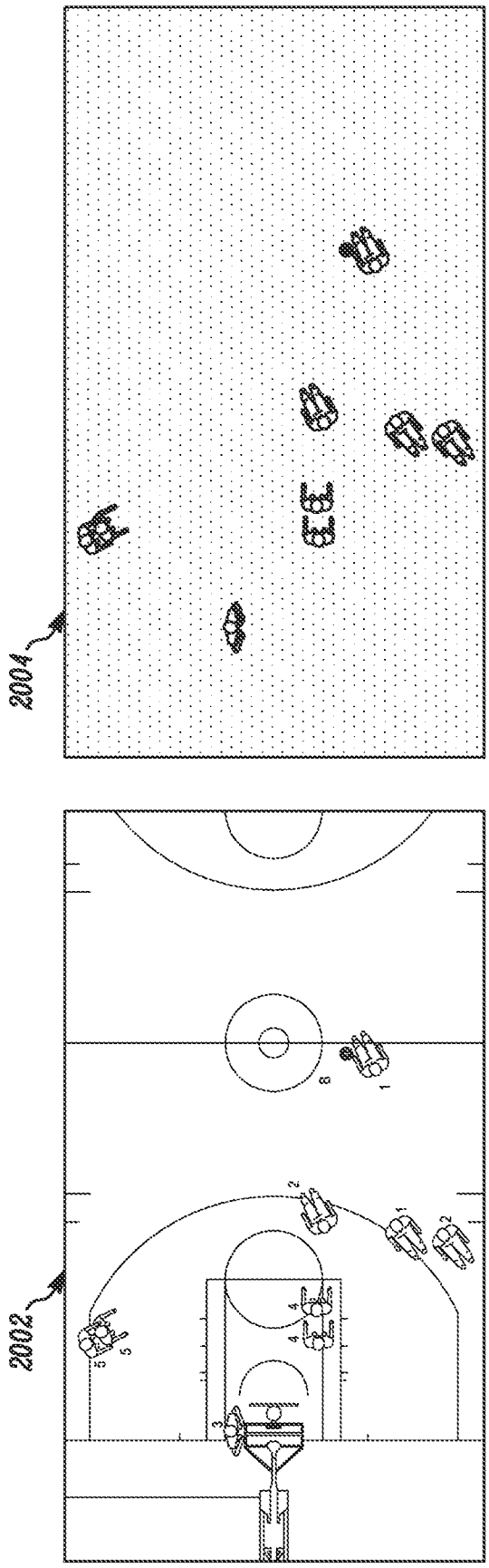


FIG. 20

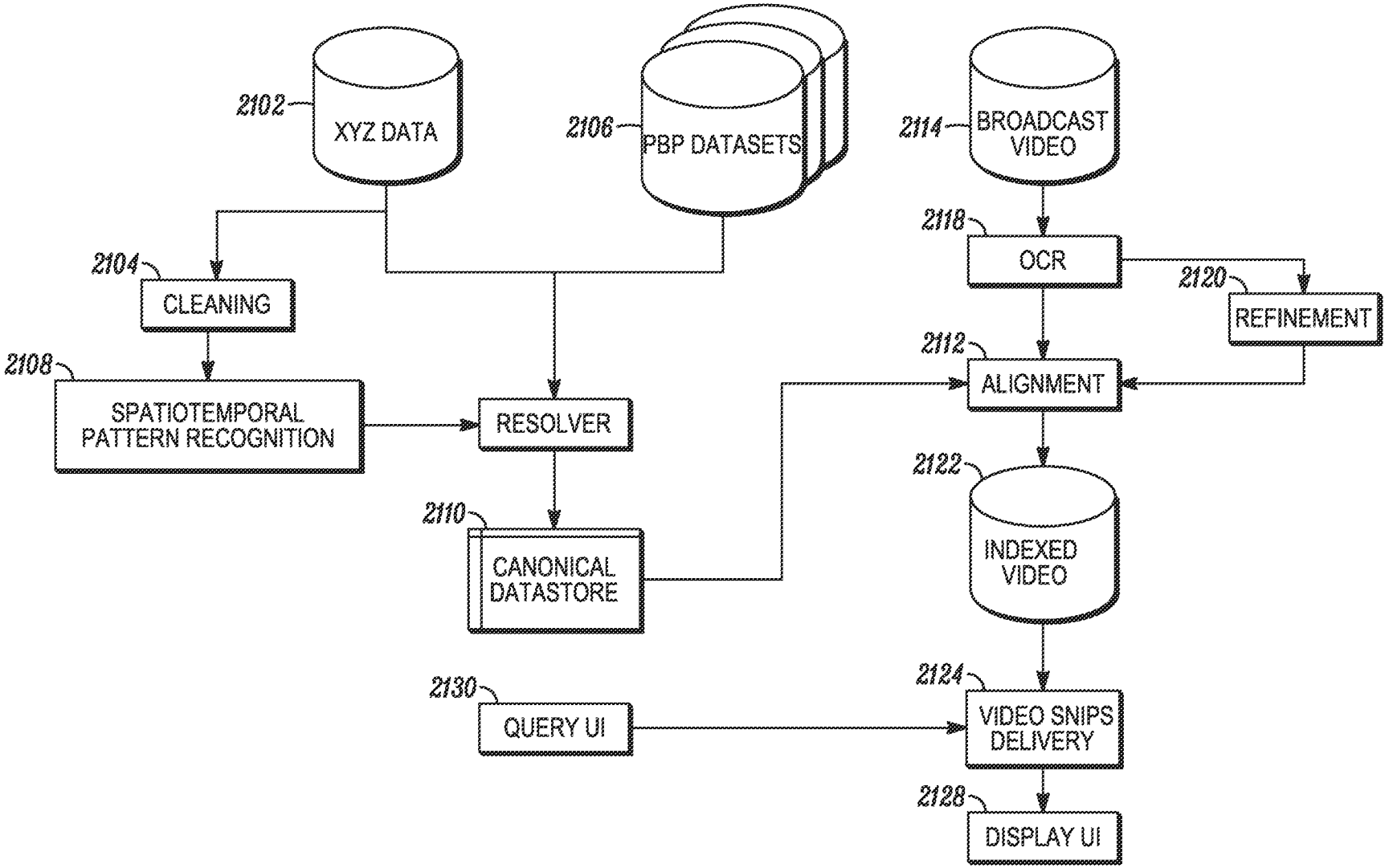

2102
XYZ DATA
2106
PBP DATASETS
2114
BROADCAST VIDEO
2104
CLEANING
2118
OCR
2120
REFINEMENT
2108
SPATIOTEMPORAL PATTERN RECOGNITION
RESOLVER
2112
ALIGNMENT
2122
INDEXED VIDEO
2110
CANONICAL DATASTORE
2130
QUERY UI
2124
VIDEO SNIPS DELIVERY
2128
DISPLAY UI

FIG. 21

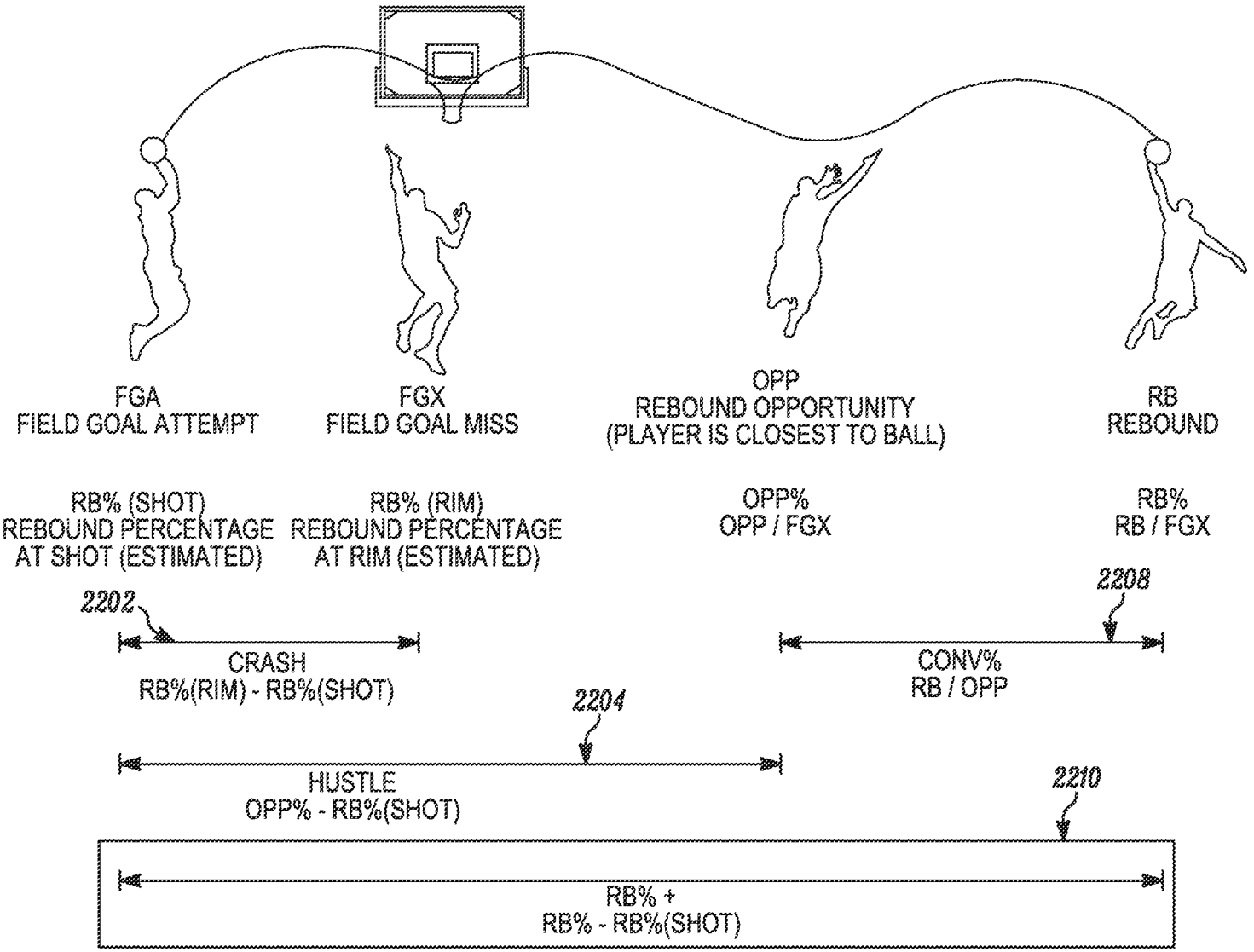

FGA
FIELD GOAL ATTEMPT
FGX
FIELD GOAL MISS
OPP
REBOUND OPPORTUNITY
(PLAYER IS CLOSEST TO BALL)
RB
REBOUND
RB% (SHOT)
REBOUND PERCENTAGE
AT SHOT (ESTIMATED)
RB% (RIM)
REBOUND PERCENTAGE
AT RIM (ESTIMATED)
OPP%
OPP / FGX
RB%
RB / FGX
2202
CRASH
RB%(RIM) - RB%(SHOT)
2208
CONV%
RB / OPP
2204
HUSTLE
OPP% - RB%(SHOT)
2210
RB% +
RB% - RB%(SHOT)

FIG. 22

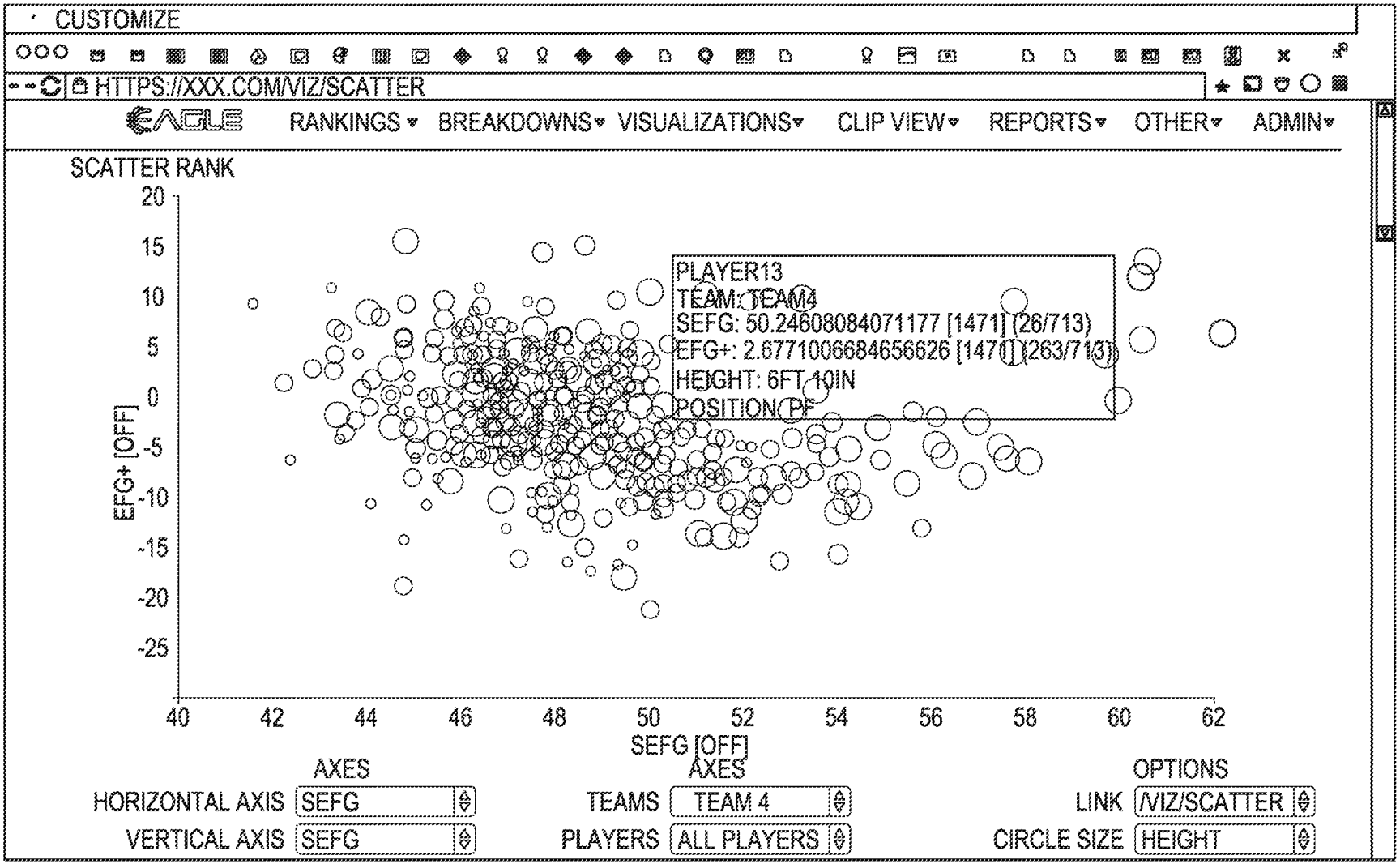
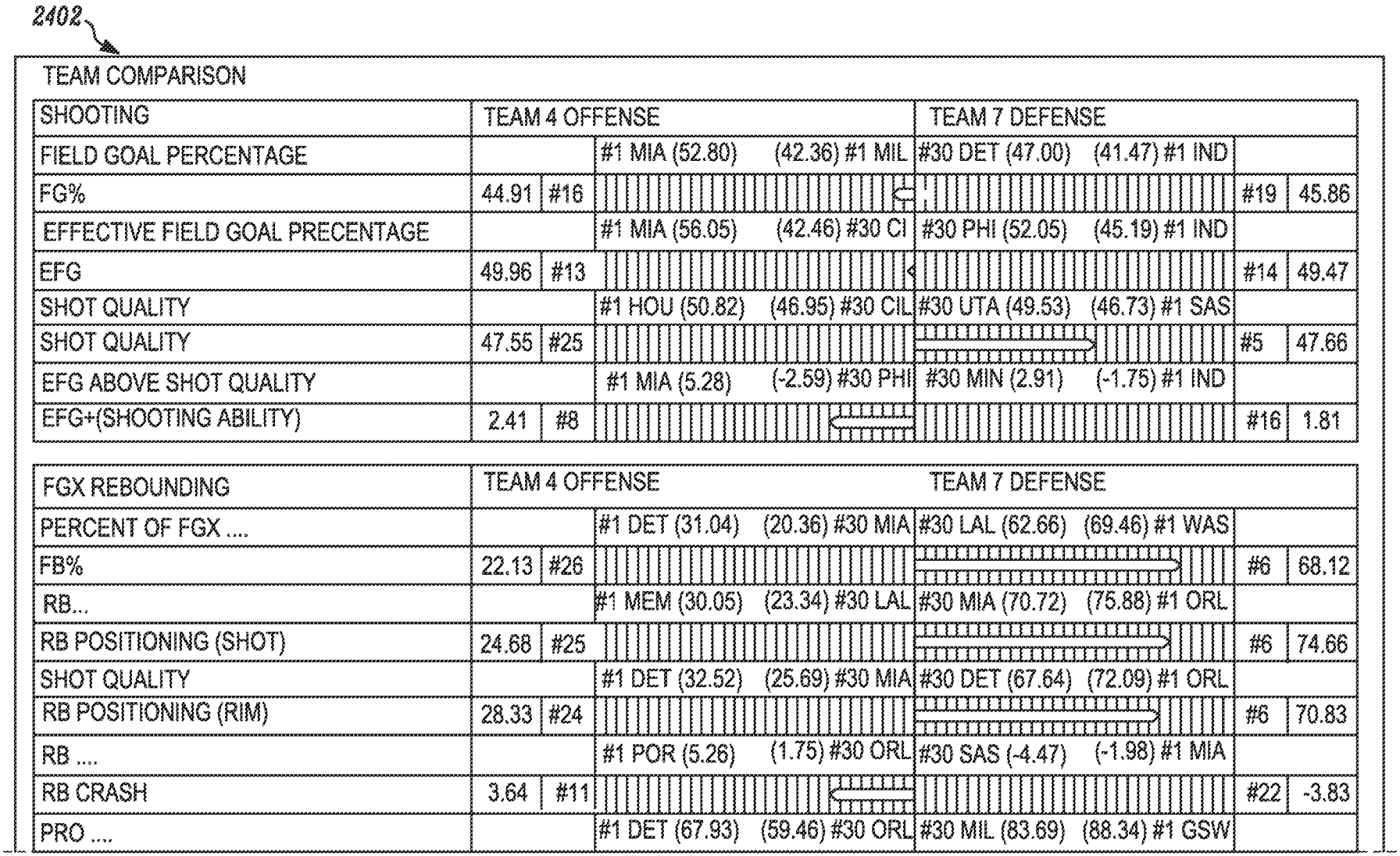

CUSTOMIZE
HTTPS://XXX.COM/VIZ/SCATTER
EAGLE
RANKINGS
BREAKDOWNS
VISUALIZATIONS
CLIP VIEW
REPORTS
OTHER
ADMIN
SCATTER RANK
EFG+ [OFF]
SEFG [OFF]
PLAYER13
TEAM: TEAM4
SEFG: 50.24608084071177 [1471] (26/713)
EFG+: 2.6771006684656626 [1471] (263/713)
HEIGHT: 6FT 10IN
POSITION: PF
AXES
HORIZONTAL AXIS
SEFG
VERTICAL AXIS
SEFG
AXES
TEAMS
TEAM 4
PLAYERS
ALL PLAYERS
OPTIONS
LINK
/VIZ/SCATTER
CIRCLE SIZE
HEIGHT

FIG. 23



SHOOTING	TEAM 4 OFFENSE			TEAM 7 DEFENSE		
FIELD GOAL PERCENTAGE		#1 MIA (52.80)	(42.36) #1 MIL	#30 DET (47.00)	(41.47) #1 IND	
FG%	44.91	#16			#19	45.86
EFFECTIVE FIELD GOAL PRECENTAGE		#1 MIA (56.05)	(42.46) #30 CI	#30 PHI (52.05)	(45.19) #1 IND	
EFG	49.96	#13			#14	49.47
SHOT QUALITY		#1 HOU (50.82)	(46.95) #30 CIL	#30 UTA (49.53)	(46.73) #1 SAS	
SHOT QUALITY	47.55	#25			#5	47.66
EFG ABOVE SHOT QUALITY		#1 MIA (5.28)	(-2.59) #30 PHI	#30 MIN (2.91)	(-1.75) #1 IND	
EFG+(SHOOTING ABILITY)	2.41	#8			#16	1.81

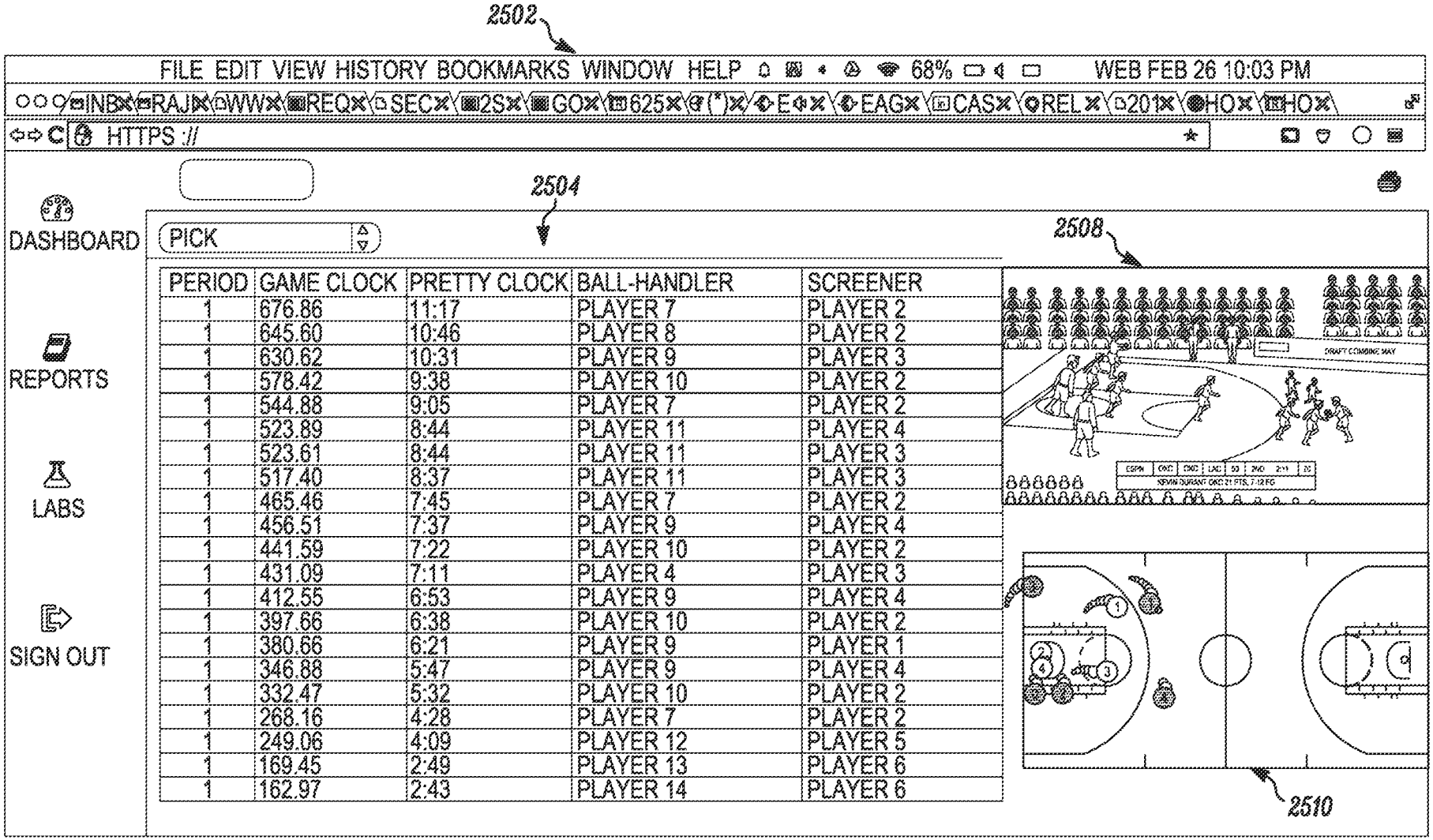
FGX REBOUNDING	TEAM 4 OFFENSE			TEAM 7 DEFENSE		
PERCENT OF FGX		#1 DET (31.04)	(20.36) #30 MIA	#30 LAL (62.66)	(69.46) #1 WAS	
FB%	22.13	#26			#6	68.12
RB...		#1 MEM (30.05)	(23.34) #30 LAL	#30 MIA (70.72)	(75.88) #1 ORL	
RB POSITIONING (SHOT)	24.68	#25			#6	74.66
SHOT QUALITY		#1 DET (32.52)	(25.69) #30 MIA	#30 DET (67.64)	(72.09) #1 ORL	
RB POSITIONING (RIM)	28.33	#24			#6	70.83
RB		#1 POR (5.26)	(1.75) #30 ORL	#30 SAS (-4.47)	(-1.98) #1 MIA	
RB CRASH	3.64	#11			#22	-3.83
PRO		#1 DET (67.93)	(59.46) #30 ORL	#30 MIL (83.69)	(88.34) #1 GSW	

FIG. 24A

FB OPP %	62.60	#22			#3	88.19
FB OPP %...			#1 MIL (40.24)	(32.70) #30 MEM	#30 MIL (10.88)	(15.57) #1 MIA
RB HUSTLE	37.92	#12			#13	13.53
PERSENT...			#1 PRO (46.09)	(34.01) #30 MIA	#30 LAL (73.38)	(79.17) #1 MEM
RB CONVERSION %	35.34	#27			#14	77.24
RB PERSENT			#1 POR (2.39)	(-4.67) #30 ATL	#30 MIL (-9.43)	(-3.23) #1 WAS
RB %+	-2.56	#26			#11	-6.54

BASIC	TEAM 4 OFFENSE			TEAM 7 DEFENSE		
DEEF....			#1 HOU (0.23)	(0.18) #30 LAL	#30 NOP (0.22)	(0.17) #1 CHA
DEFFOULS PER POSSENSIVE	0.20	#7			#7	0.18
ASS...			#1 ATL (0.27)	(0.20) #30 PHX	#30 PHI (0.27)	(0.19) #1 IND
ASSISTS PER POSS..	0.22	#18			#4	0.21
BLOCK....			#1 MIA (0.03)	(0.07) #30 PHI	#30 MIN (0.04)	(0.07) #1 NOP
BLOCK PER POSS.	0.04	#9			#12	0.05
STEALS PER POSSE...			#1 CHA (0.07)	(0.10) #30 LAL	#30 POR (0.06)	(0.10) #1 MIA
STEALS PER POSS.	0.08	#15			#30	0.06

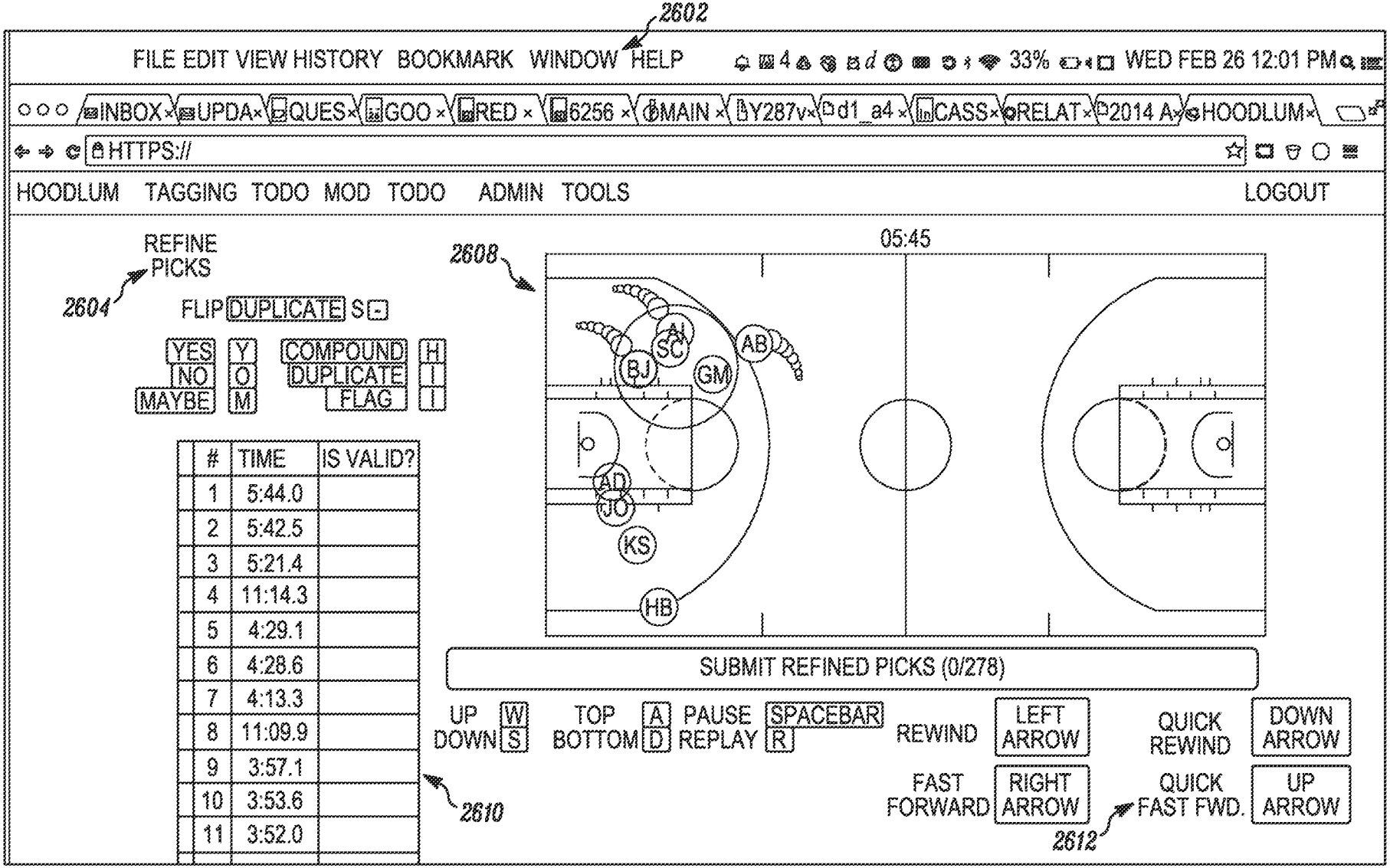
FIG. 24B



PERIOD	GAME CLOCK	PRETTY CLOCK	BALL-HANDLER	SCREENER
1	676.86	11:17	PLAYER 7	PLAYER 2
1	645.60	10:46	PLAYER 8	PLAYER 2
1	630.62	10:31	PLAYER 9	PLAYER 3
1	578.42	9:38	PLAYER 10	PLAYER 2
1	544.88	9:05	PLAYER 7	PLAYER 2
1	523.89	8:44	PLAYER 11	PLAYER 4
1	523.61	8:44	PLAYER 11	PLAYER 3
1	517.40	8:37	PLAYER 11	PLAYER 3
1	465.46	7:45	PLAYER 7	PLAYER 2
1	456.51	7:37	PLAYER 9	PLAYER 4
1	441.59	7:22	PLAYER 10	PLAYER 2
1	431.09	7:11	PLAYER 4	PLAYER 3
1	412.55	6:53	PLAYER 9	PLAYER 4
1	397.66	6:38	PLAYER 10	PLAYER 2
1	380.66	6:21	PLAYER 9	PLAYER 1
1	346.88	5:47	PLAYER 9	PLAYER 4
1	332.47	5:32	PLAYER 10	PLAYER 2
1	268.16	4:28	PLAYER 7	PLAYER 2
1	249.06	4:09	PLAYER 12	PLAYER 5
1	169.45	2:49	PLAYER 13	PLAYER 6
1	162.97	2:43	PLAYER 14	PLAYER 6

FIG. 25

Genius Sports Ex. 1049
p. 657



#	TIME	IS VALID?
1	5:44.0	
2	5:42.5	
3	5:21.4	
4	11:14.3	
5	4:29.1	
6	4:28.6	
7	4:13.3	
8	11:09.9	
9	3:57.1	
10	3:53.6	
11	3:52.0	

FIG. 26

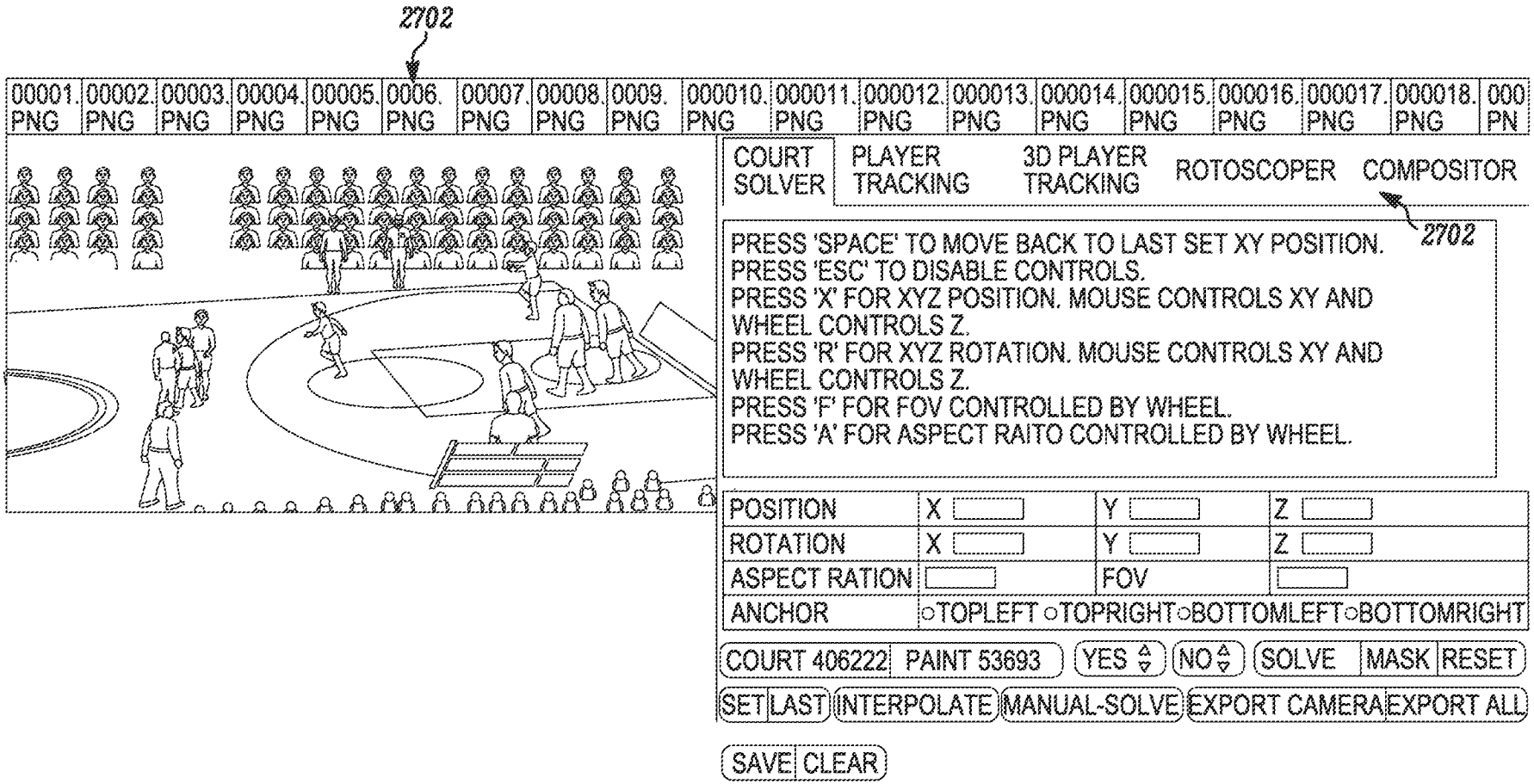


FIG. 27

Genius Sports Ex. 1049
p. 659

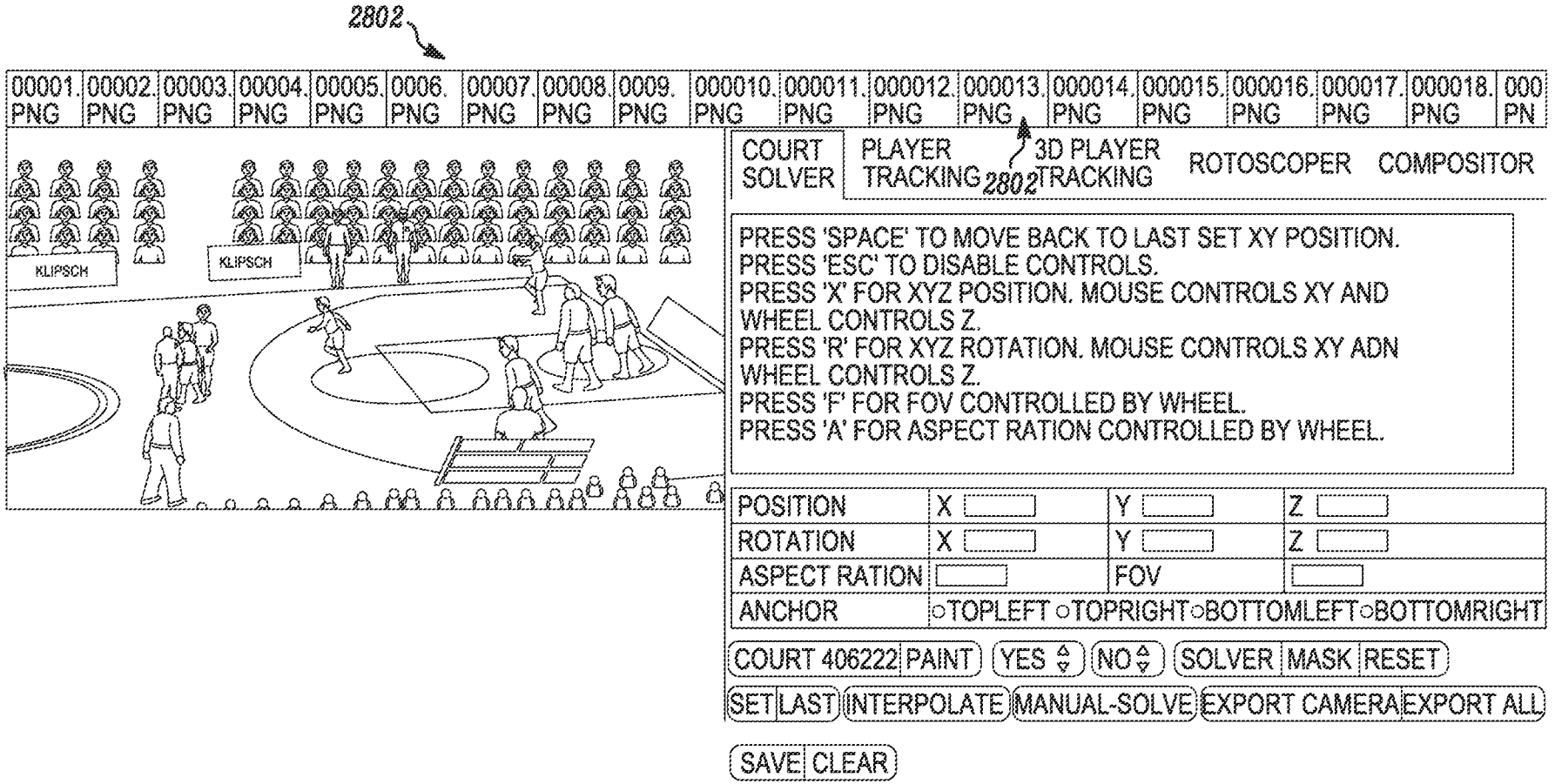


FIG. 28

Genius Sports Ex. 1049
p. 660

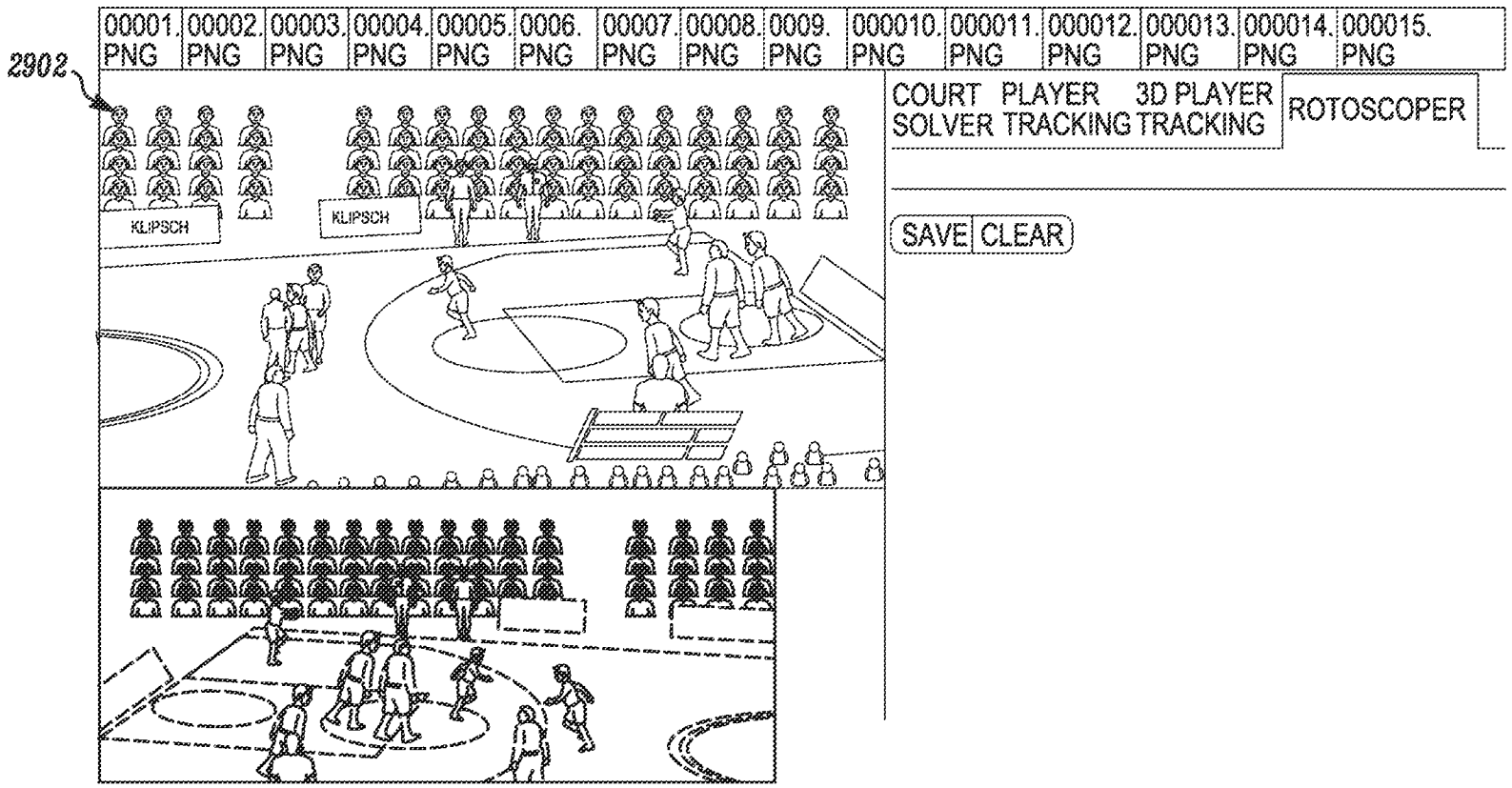

2902
00001.PNG
00002.PNG
00003.PNG
00004.PNG
00005.PNG
0006.PNG
00007.PNG
00008.PNG
0009.PNG
000010.PNG
000011.PNG
000012.PNG
000013.PNG
000014.PNG
000015.PNG
COURT SOLVER
PLAYER TRACKING
3D PLAYER TRACKING
ROTOSCOPER
SAVE
CLEAR
KLIPSCH
KLIPSCH

FIG. 29

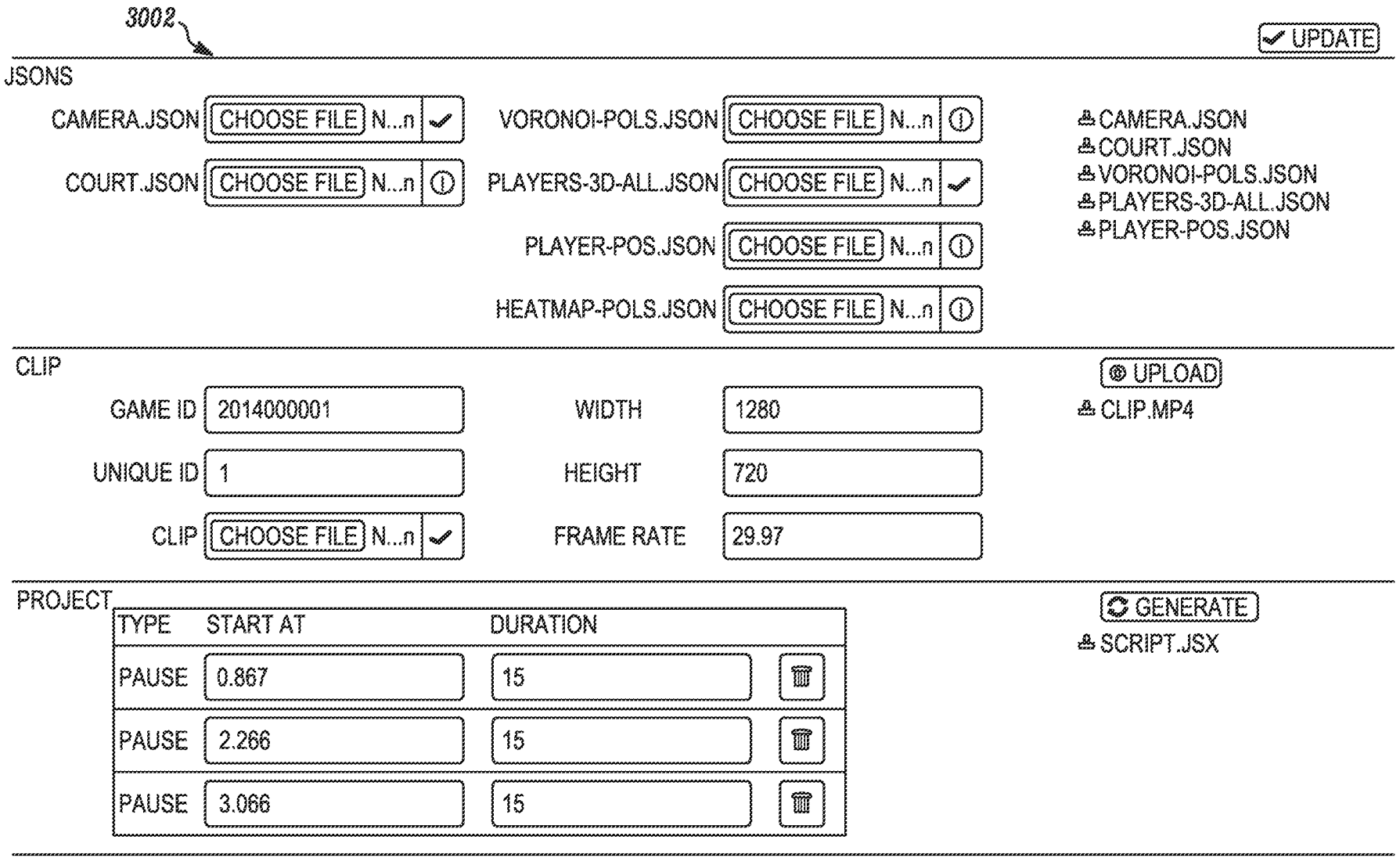

3002
UPDATE
JSONS
CAMERA.JSON
CHOOSE FILE
N...n
COURT.JSON
CHOOSE FILE
N...n
VORONOI-POLS.JSON
CHOOSE FILE
N...n
PLAYERS-3D-ALL.JSON
CHOOSE FILE
N...n
PLAYER-POS.JSON
CHOOSE FILE
N...n
HEATMAP-POLS.JSON
CHOOSE FILE
N...n
CAMERA.JSON
COURT.JSON
VORONOI-POLS.JSON
PLAYERS-3D-ALL.JSON
PLAYER-POS.JSON
CLIP
UPLOAD
GAME ID
2014000001
UNIQUE ID
1
CLIP
CHOOSE FILE
N...n
WIDTH
1280
HEIGHT
720
FRAME RATE
29.97
CLIP.MP4
PROJECT
GENERATE
SCRIPT.JSX
TYPE
START AT
DURATION
PAUSE
0.867
15
PAUSE
2.266
15
PAUSE
3.066
15

FIG. 30A

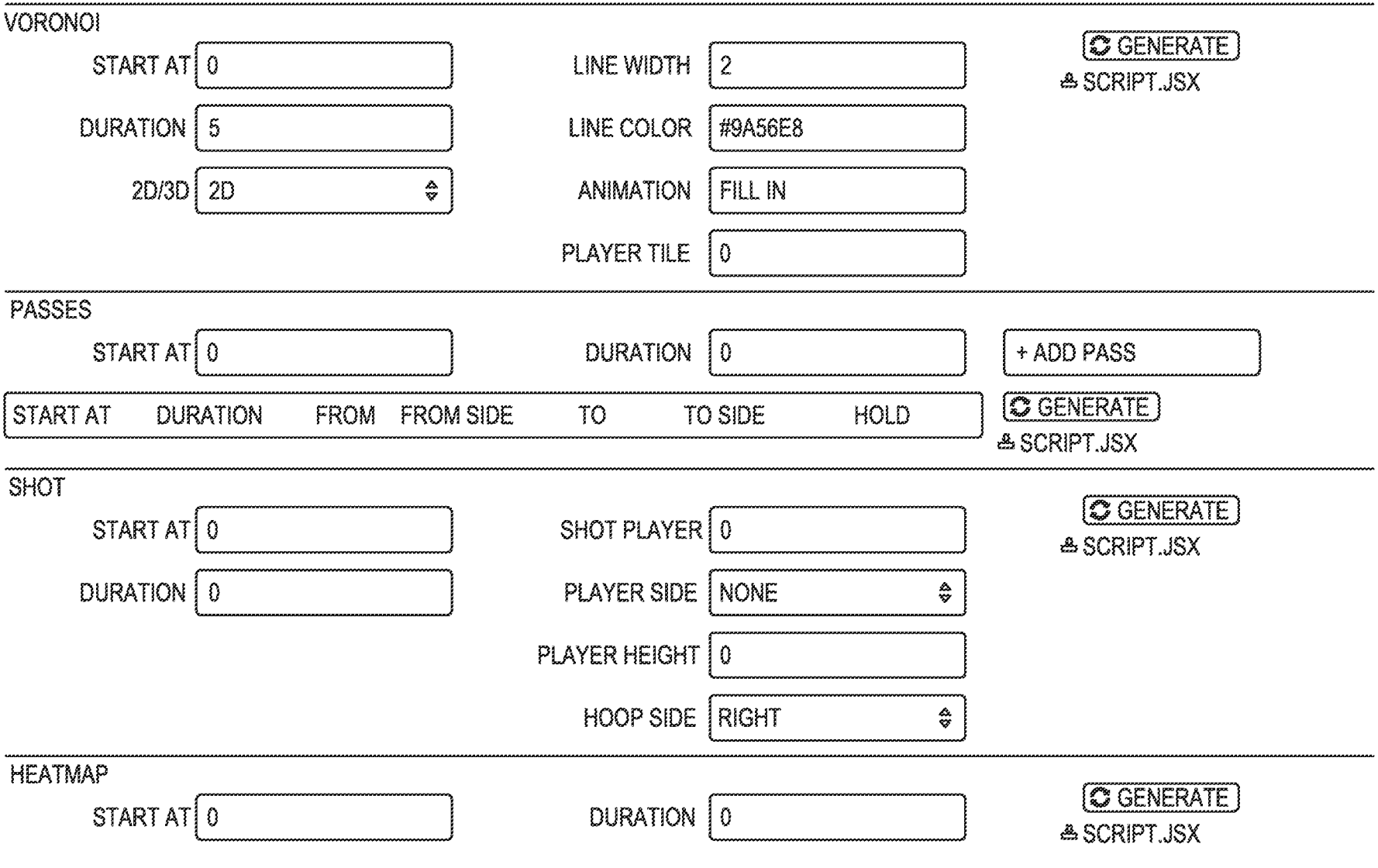

VORONOI
START AT 0
DURATION 5
2D/3D 2D
LINE WIDTH 2
LINE COLOR #9A56E8
ANIMATION FILL IN
PLAYER TILE 0
GENERATE
SCRIPT.JSX
PASSES
START AT 0
DURATION 0
+ ADD PASS
START AT DURATION FROM FROM SIDE TO TO SIDE HOLD
GENERATE
SCRIPT.JSX
SHOT
START AT 0
DURATION 0
SHOT PLAYER 0
PLAYER SIDE NONE
PLAYER HEIGHT 0
HOOP SIDE RIGHT
GENERATE
SCRIPT.JSX
HEATMAP
START AT 0
DURATION 0
GENERATE
SCRIPT.JSX

FIG. 30B

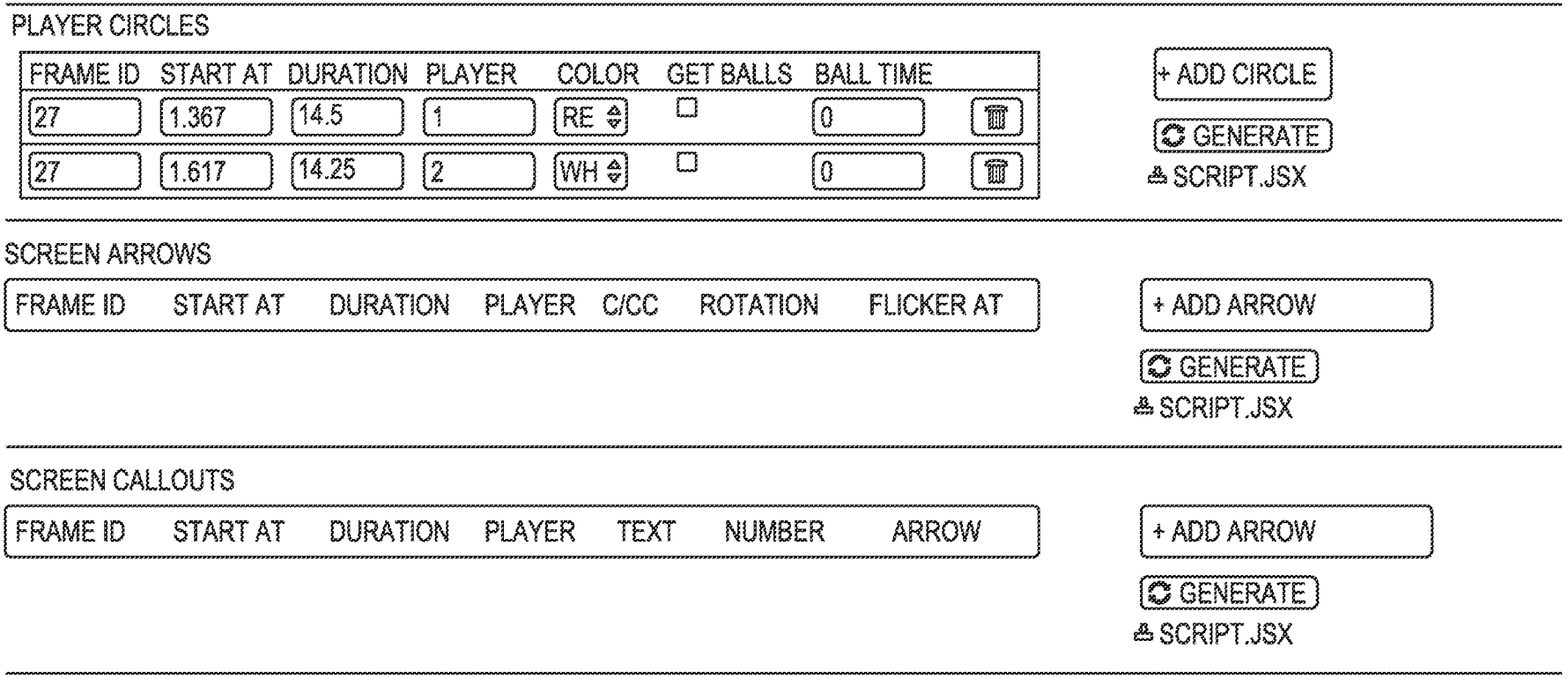

PLAYER CIRCLES
FRAME ID
START AT
DURATION
PLAYER
COLOR
GET BALLS
BALL TIME
27
1.367
14.5
1
RE
0
27
1.617
14.25
2
WH
0
+ ADD CIRCLE
GENERATE
SCRIPT.JSX
SCREEN ARROWS
FRAME ID
START AT
DURATION
PLAYER
C/CC
ROTATION
FLICKER AT
+ ADD ARROW
GENERATE
SCRIPT.JSX
SCREEN CALLOUTS
FRAME ID
START AT
DURATION
PLAYER
TEXT
NUMBER
ARROW
+ ADD ARROW
GENERATE
SCRIPT.JSX

FIG. 30C

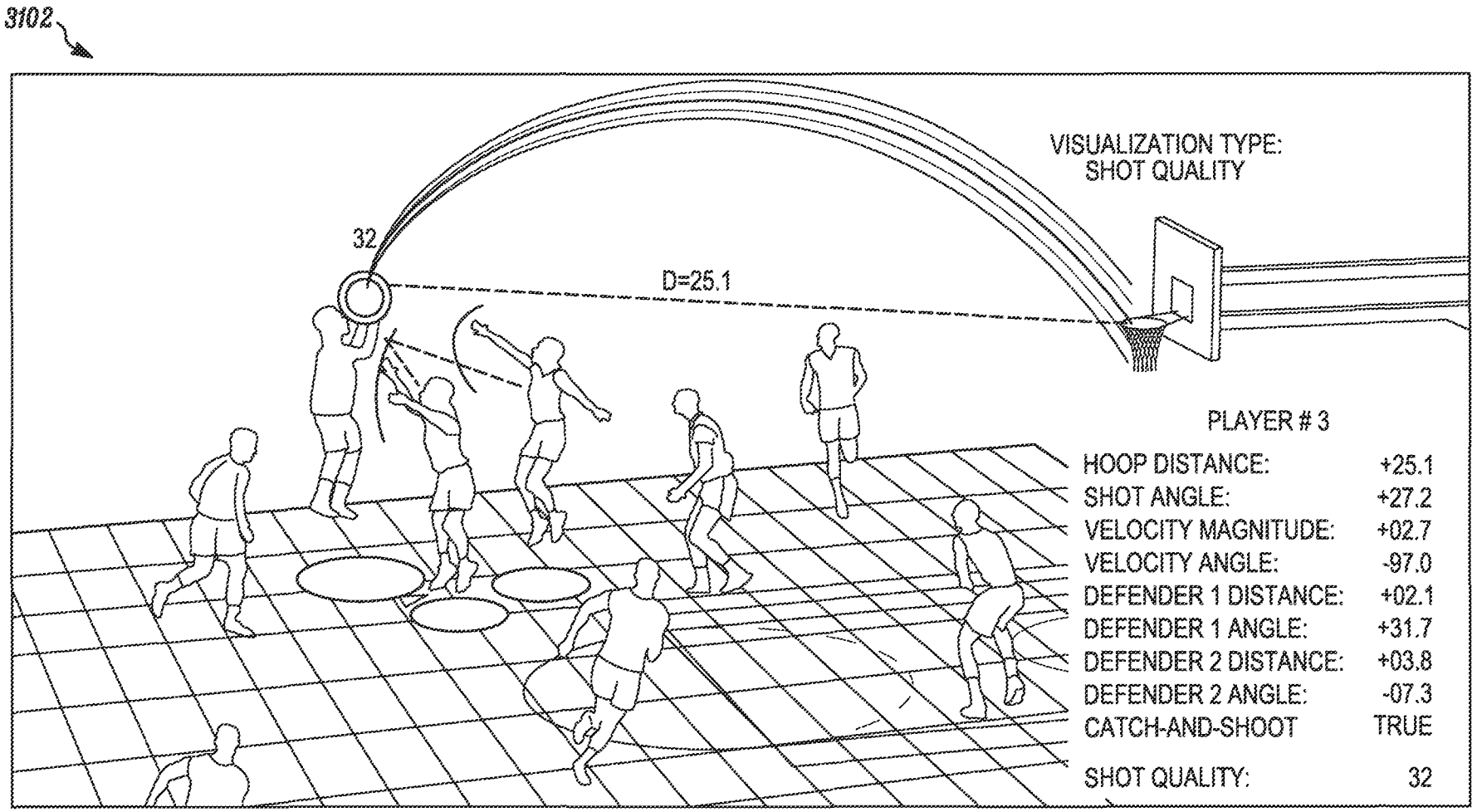

3102
VISUALIZATION TYPE:
SHOT QUALITY
32
D=25.1
PLAYER # 3
HOOP DISTANCE: +25.1
SHOT ANGLE: +27.2
VELOCITY MAGNITUDE: +02.7
VELOCITY ANGLE: -97.0
DEFENDER 1 DISTANCE: +02.1
DEFENDER 1 ANGLE: +31.7
DEFENDER 2 DISTANCE: +03.8
DEFENDER 2 ANGLE: -07.3
CATCH-AND-SHOOT TRUE
SHOT QUALITY: 32

FIG. 31

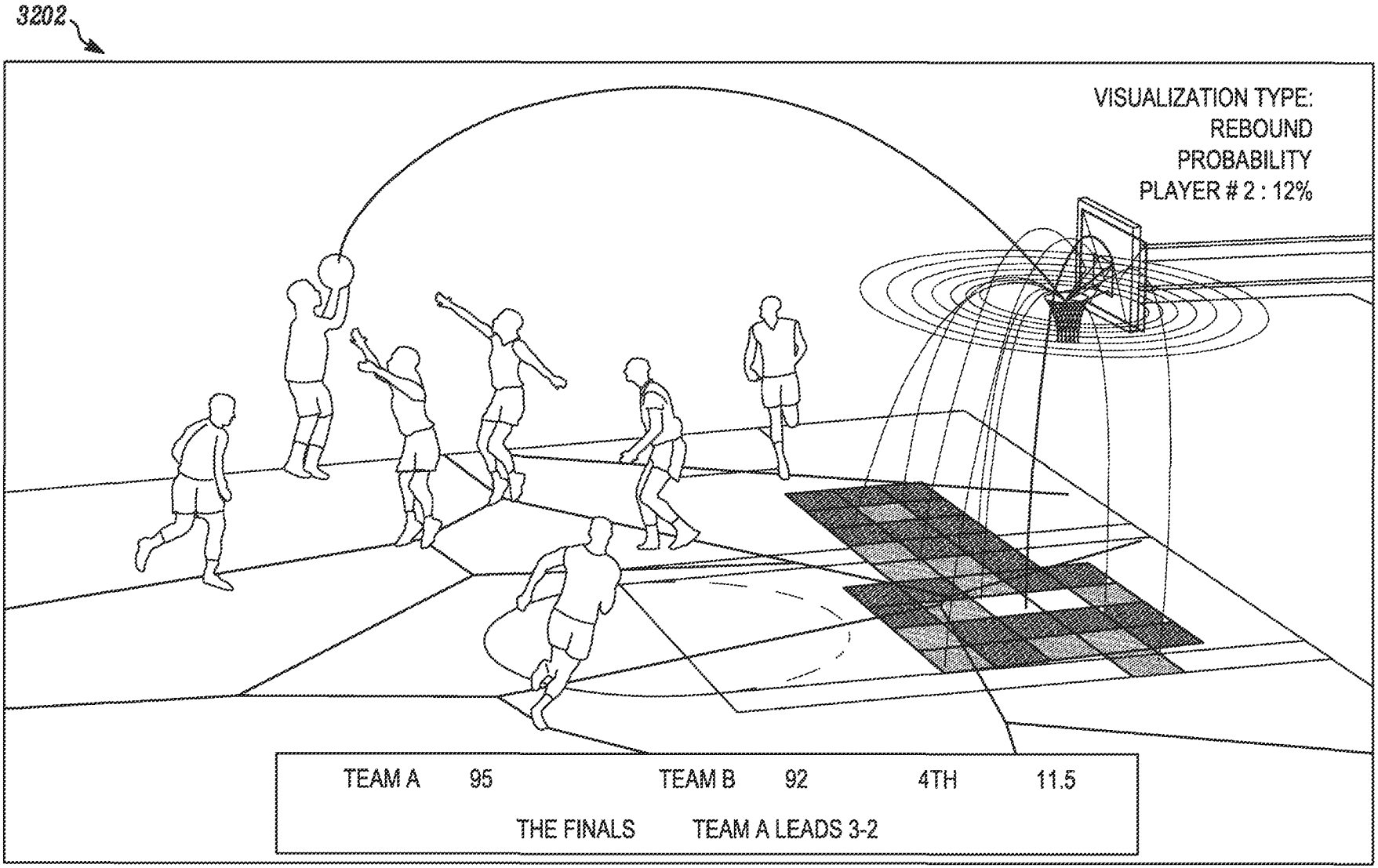

3202
VISUALIZATION TYPE:
REBOUND
PROBABILITY
PLAYER # 2 : 12%
TEAM A 95
TEAM B 92
4TH 11.5
THE FINALS
TEAM A LEADS 3-2

FIG. 32

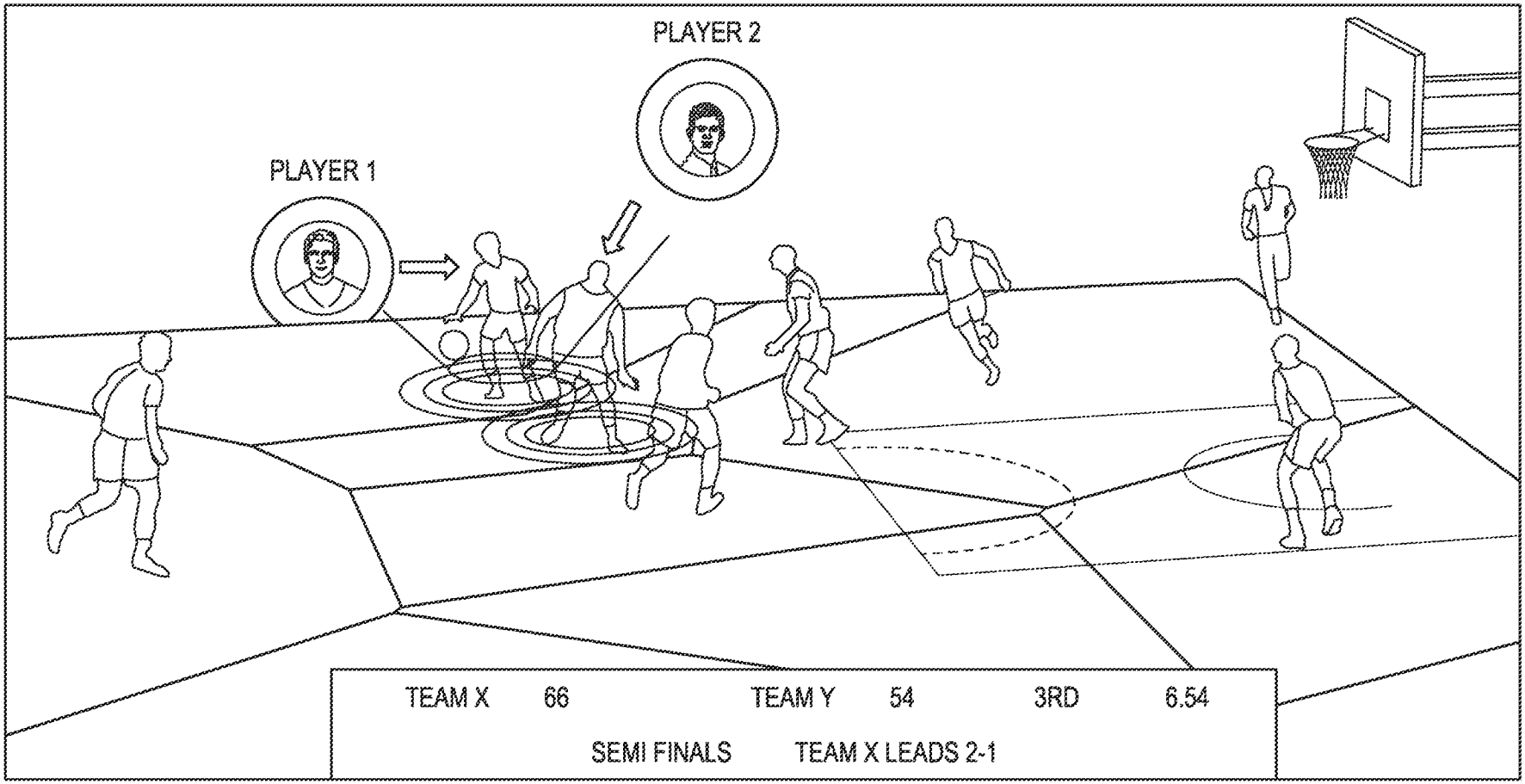

3302
PLAYER 2
PLAYER 1
TEAM X 66
TEAM Y 54
3RD 6.54
SEMI FINALS
TEAM X LEADS 2-1

FIG. 33

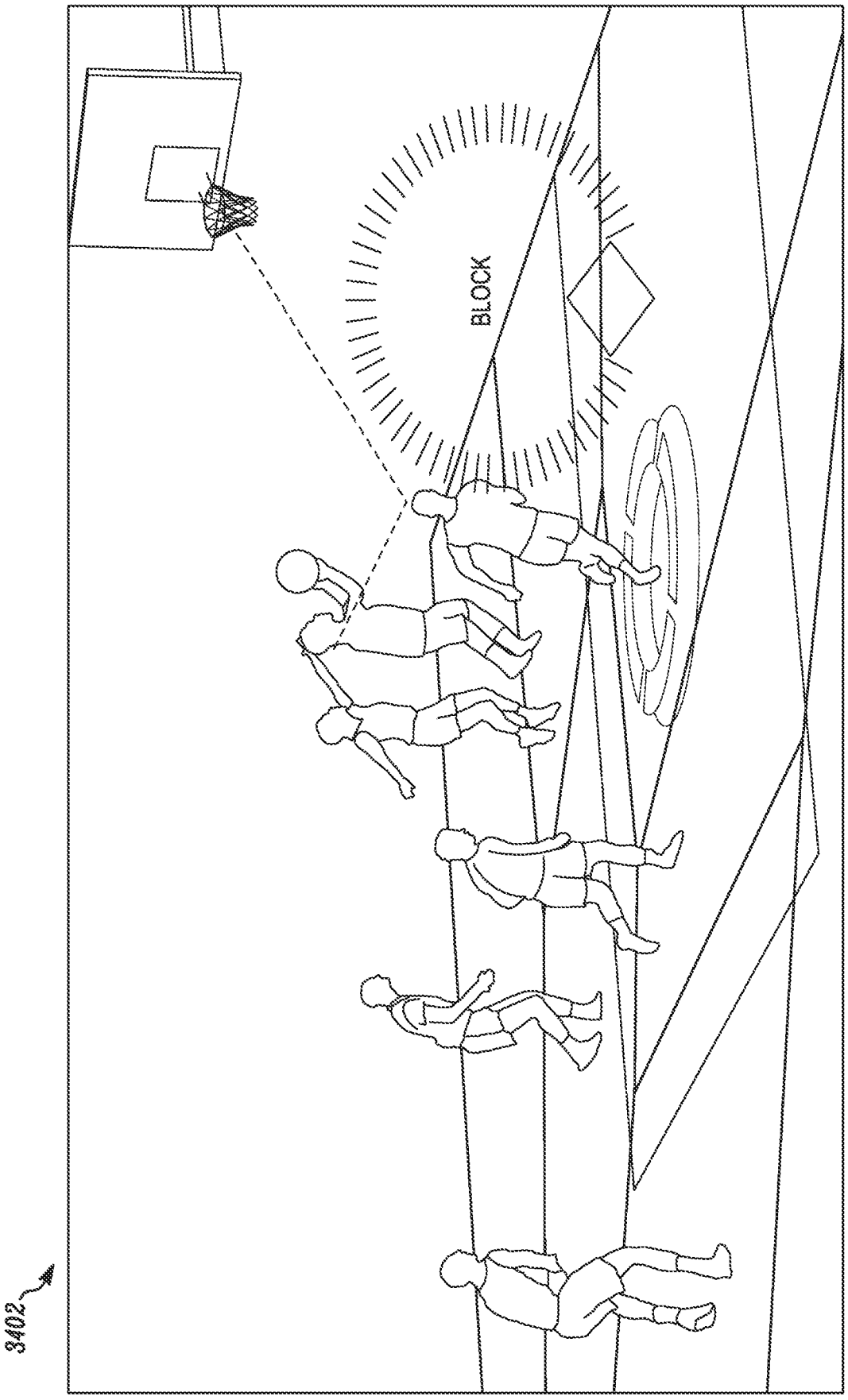


FIG. 34

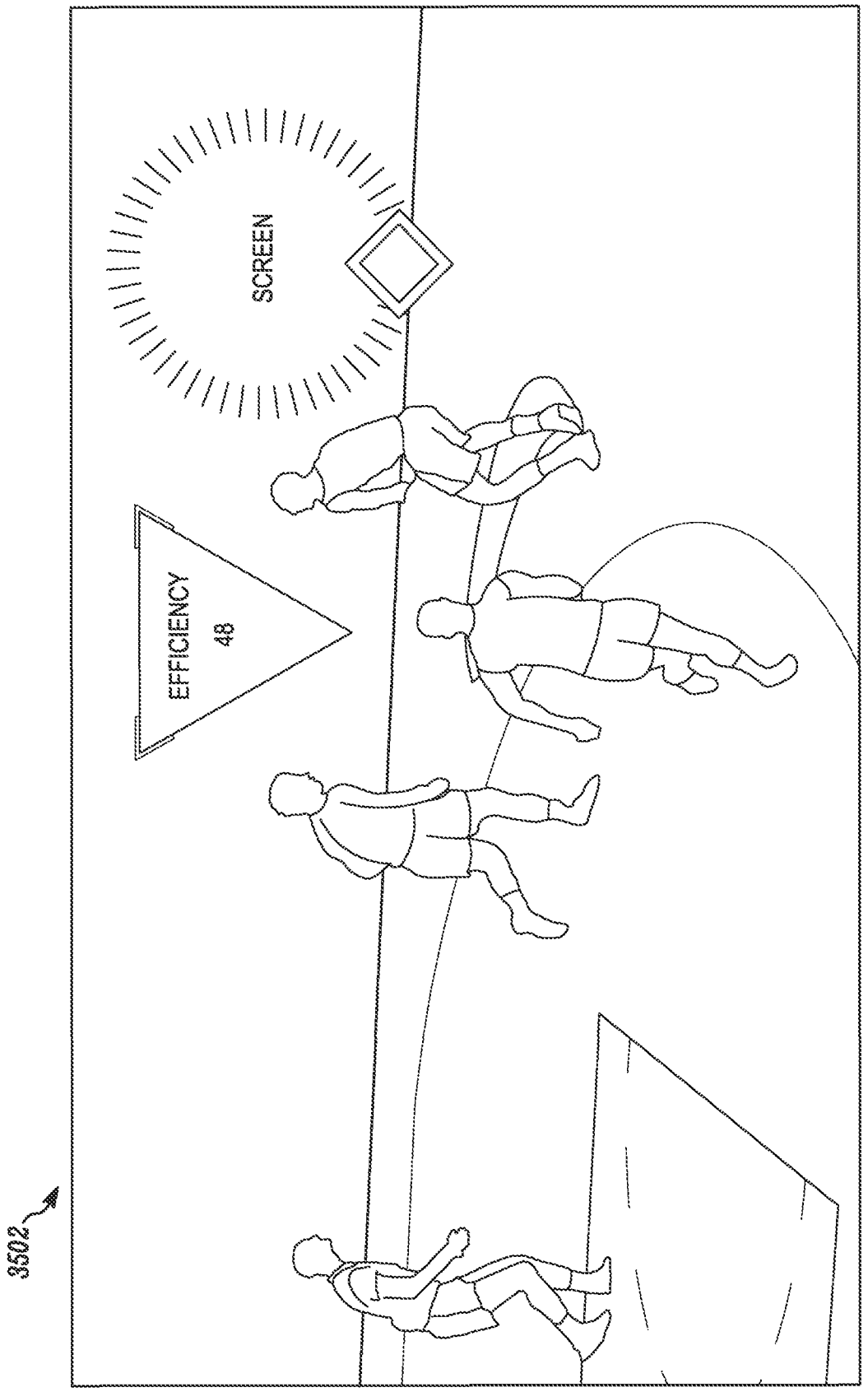


FIG. 35

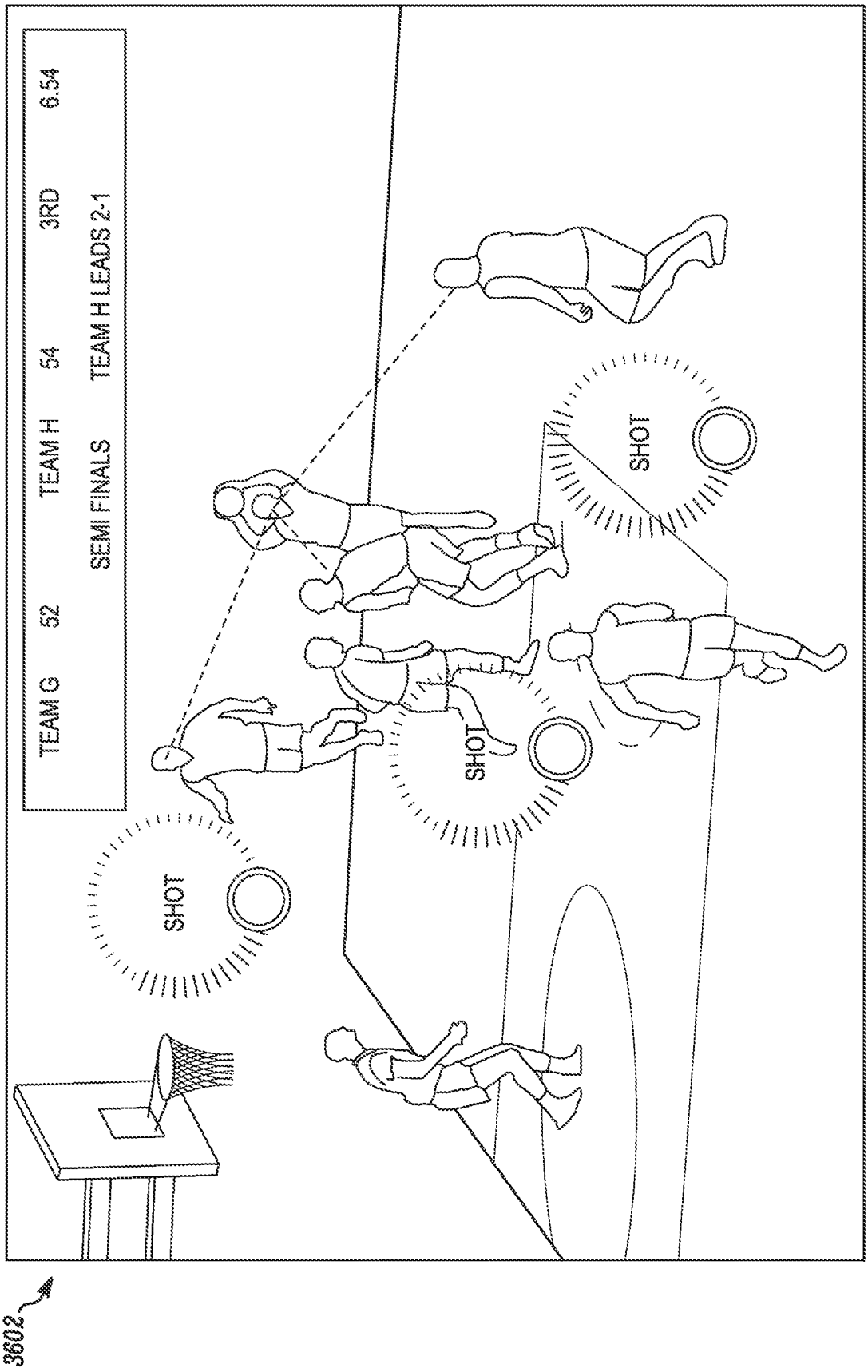

TEAM G 52
TEAM H 54
SEMI FINALS
3RD 6.54
TEAM H LEADS 2-1
SHOT
SHOT
SHOT
3602

FIG. 36

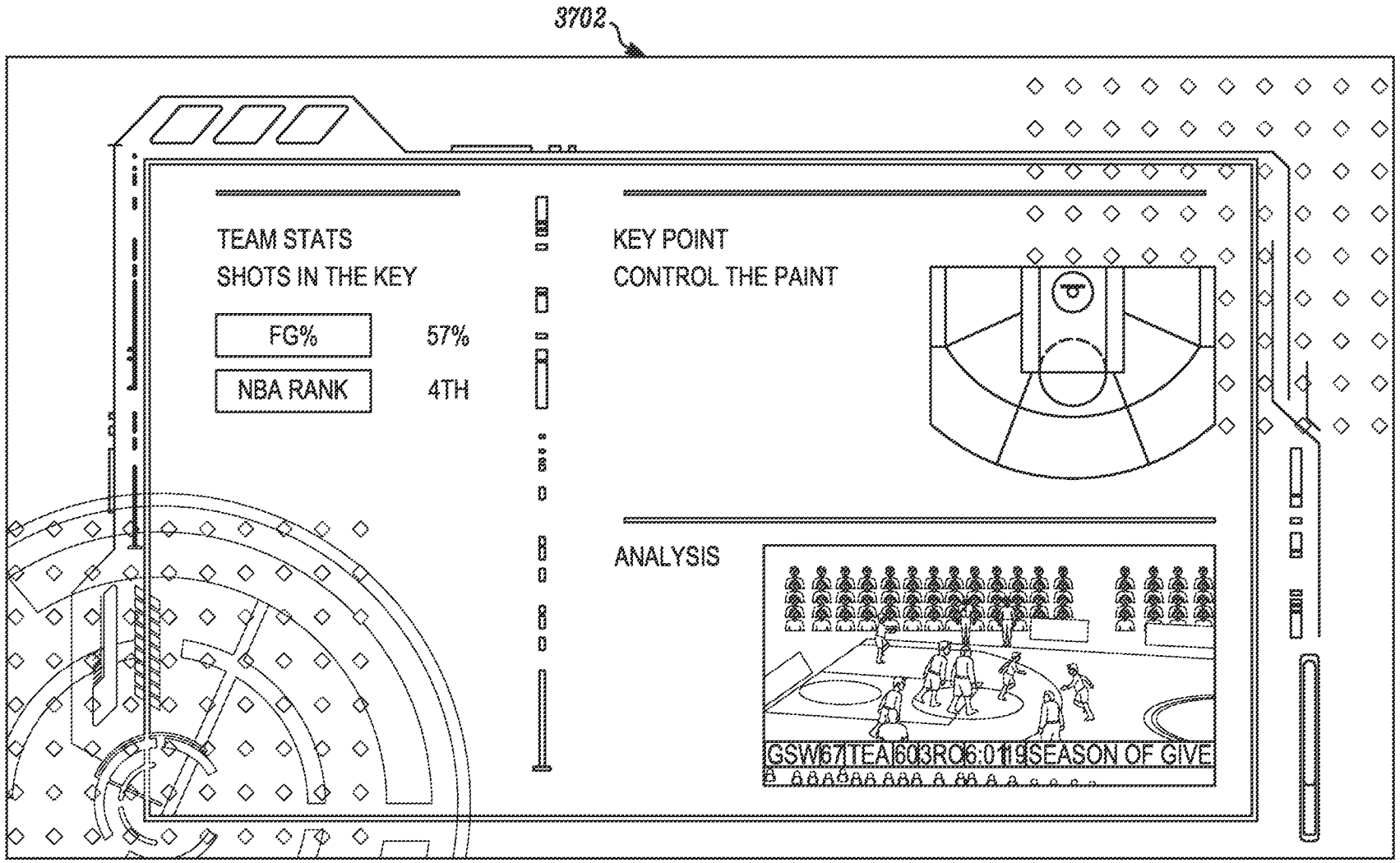

3702
TEAM STATS
SHOTS IN THE KEY
FG%
57%
NBA RANK
4TH
KEY POINT
CONTROL THE PAINT
ANALYSIS
GSW67|TEA|603RO6:0119SEASON OF GIVE

FIG. 37

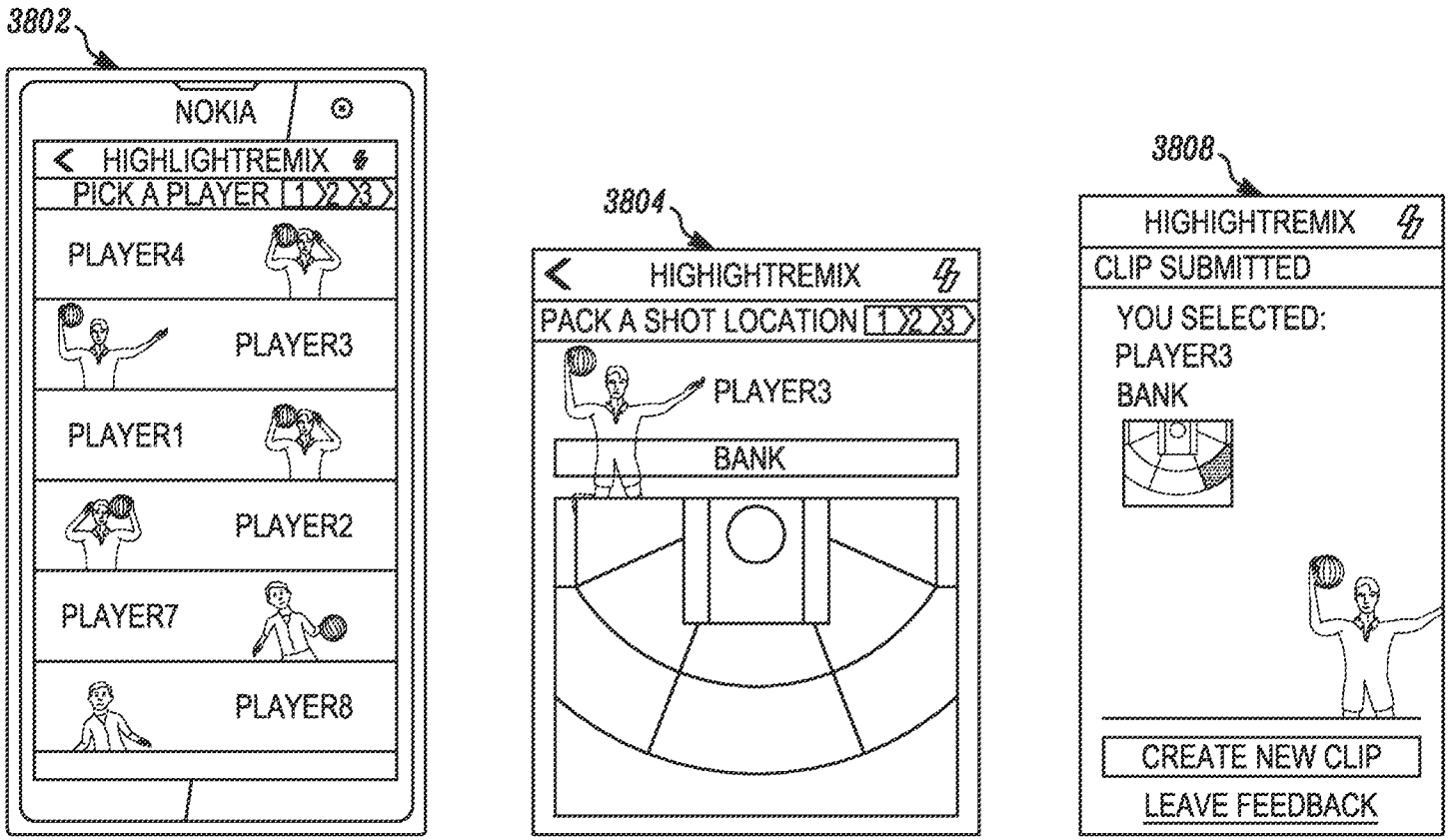

3802
NOKIA
HIGHLIGHTREMIX
PICK A PLAYER 1 2 3
PLAYER4
PLAYER3
PLAYER1
PLAYER2
PLAYER7
PLAYER8
3804
HIGHLIGHTREMIX
PACK A SHOT LOCATION 1 2 3
PLAYER3
BANK
3808
HIGHIGHTREMIX
CLIP SUBMITTED
YOU SELECTED:
PLAYER3
BANK
CREATE NEW CLIP
LEAVE FEEDBACK

FIG. 38

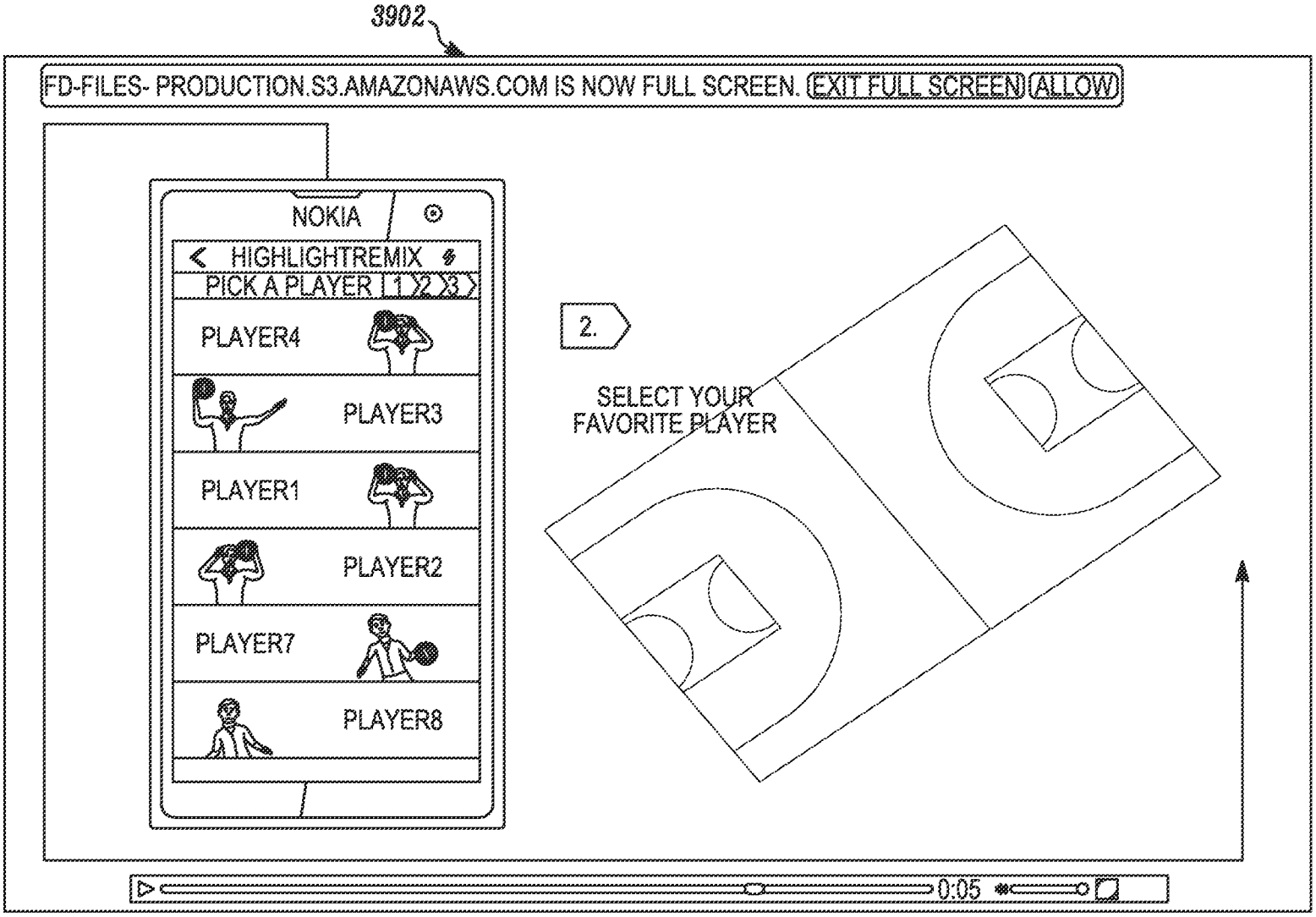

3902
FD-FILES- PRODUCTION.S3.AMAZONAWS.COM IS NOW FULL SCREEN. EXIT FULL SCREEN ALLOW
NOKIA
HIGHLIGHTREMIX
PICK A PLAYER 1 2 3
PLAYER4
PLAYER3
PLAYER1
PLAYER2
PLAYER7
PLAYER8
2.
SELECT YOUR FAVORITE PLAYER
0:05

FIG. 39A

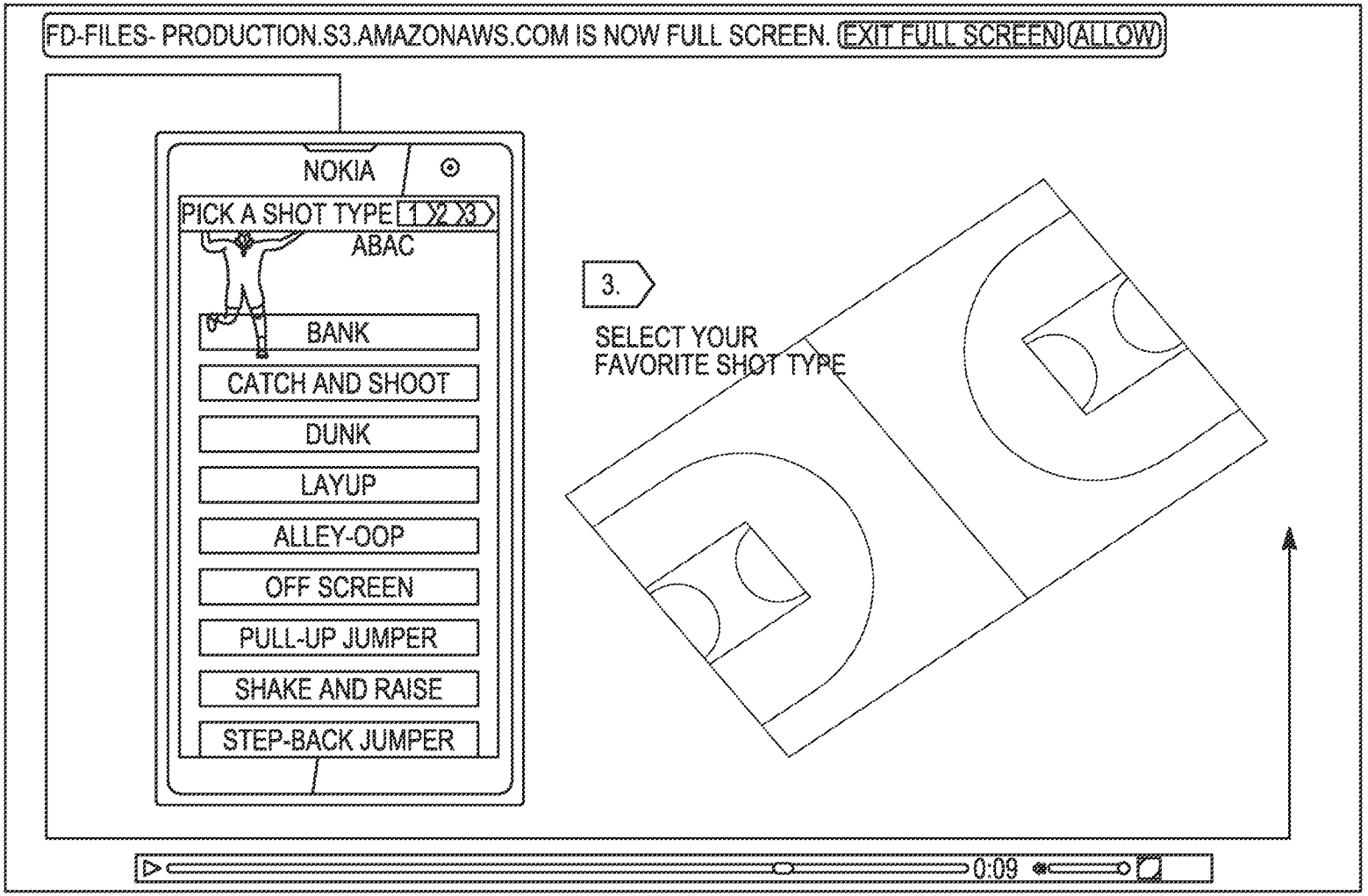

FD-FILES- PRODUCTION.S3.AMAZONAWS.COM IS NOW FULL SCREEN. EXIT FULL SCREEN ALLOW
NOKIA
PICK A SHOT TYPE 1 X 2 X 3
ABAC
BANK
CATCH AND SHOOT
DUNK
LAYUP
ALLEY-OOP
OFF SCREEN
PULL-UP JUMPER
SHAKE AND RAISE
STEP-BACK JUMPER
3.
SELECT YOUR
FAVORITE SHOT TYPE
0:09

FIG. 39B

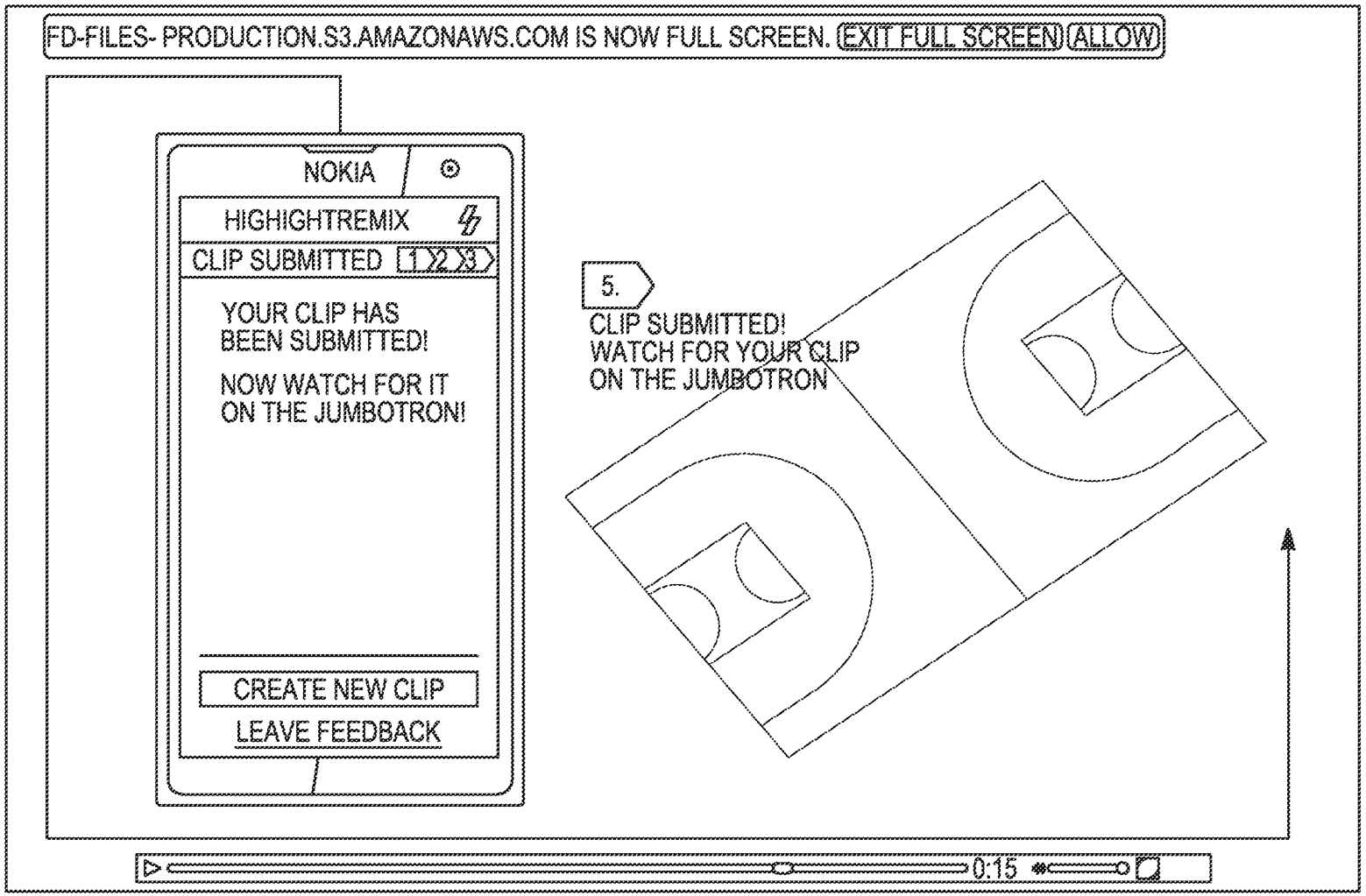

FD-FILES- PRODUCTION.S3.AMAZONAWS.COM IS NOW FULL SCREEN. EXIT FULL SCREEN ALLOW
NOKIA
HIGHIGHTREMIX
CLIP SUBMITTED 1 2 3
YOUR CLIP HAS BEEN SUBMITTED!
NOW WATCH FOR IT ON THE JUMBOTRON!
CREATE NEW CLIP
LEAVE FEEDBACK
5.
CLIP SUBMITTED!
WATCH FOR YOUR CLIP
ON THE JUMBOTRON
0:15

FIG. 39C

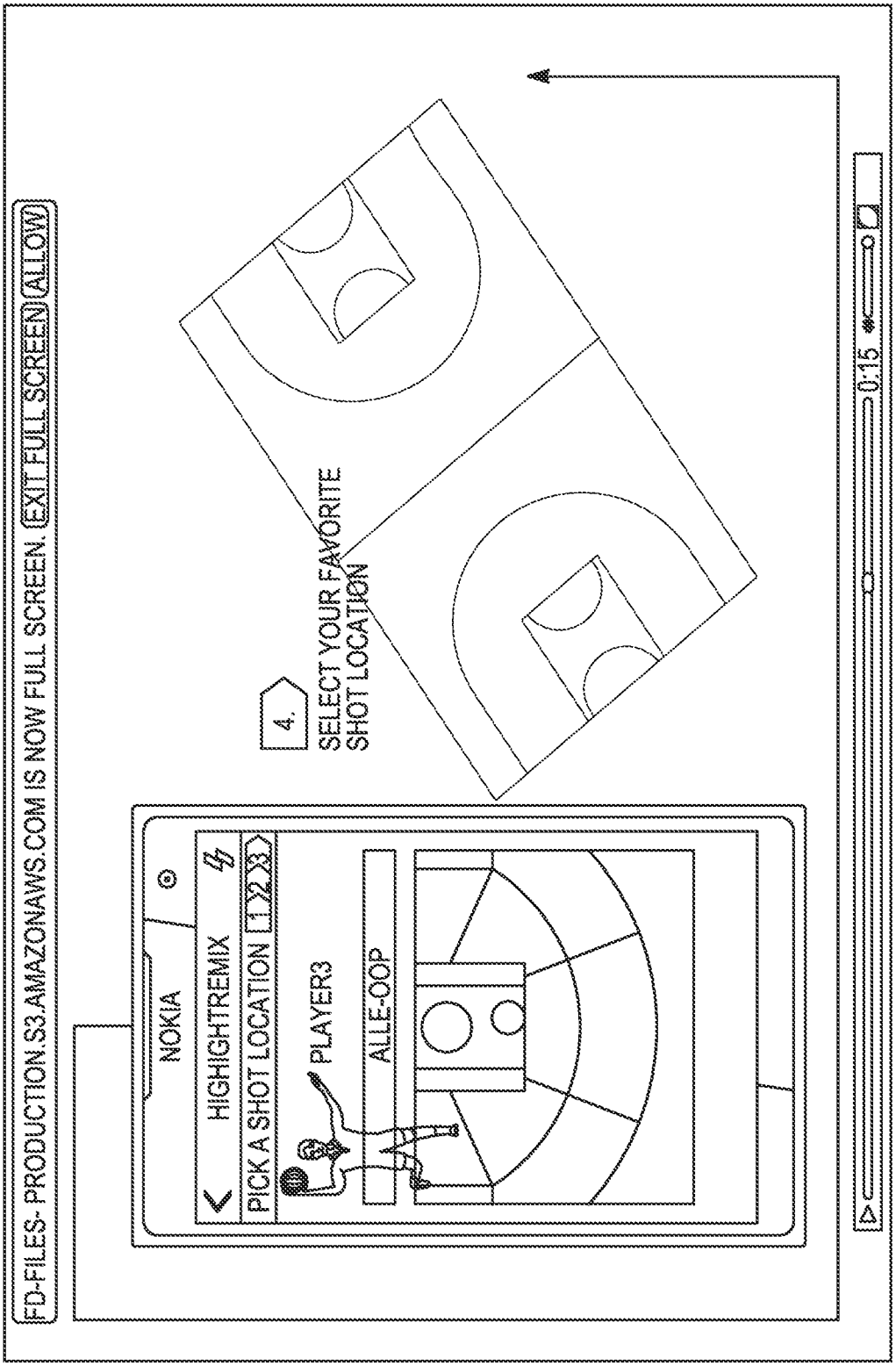

FD-FILES- PRODUCTION.S3.AMAZONAWS.COM IS NOW FULL SCREEN. EXIT FULL SCREEN ALLOW
NOKIA
HIGHIGHTREMIX
PICK A SHOT LOCATION 1 2 3
PLAYER3
ALLE-OOP
4.
SELECT YOUR FAVORITE SHOT LOCATION
0:15

FIG. 39D

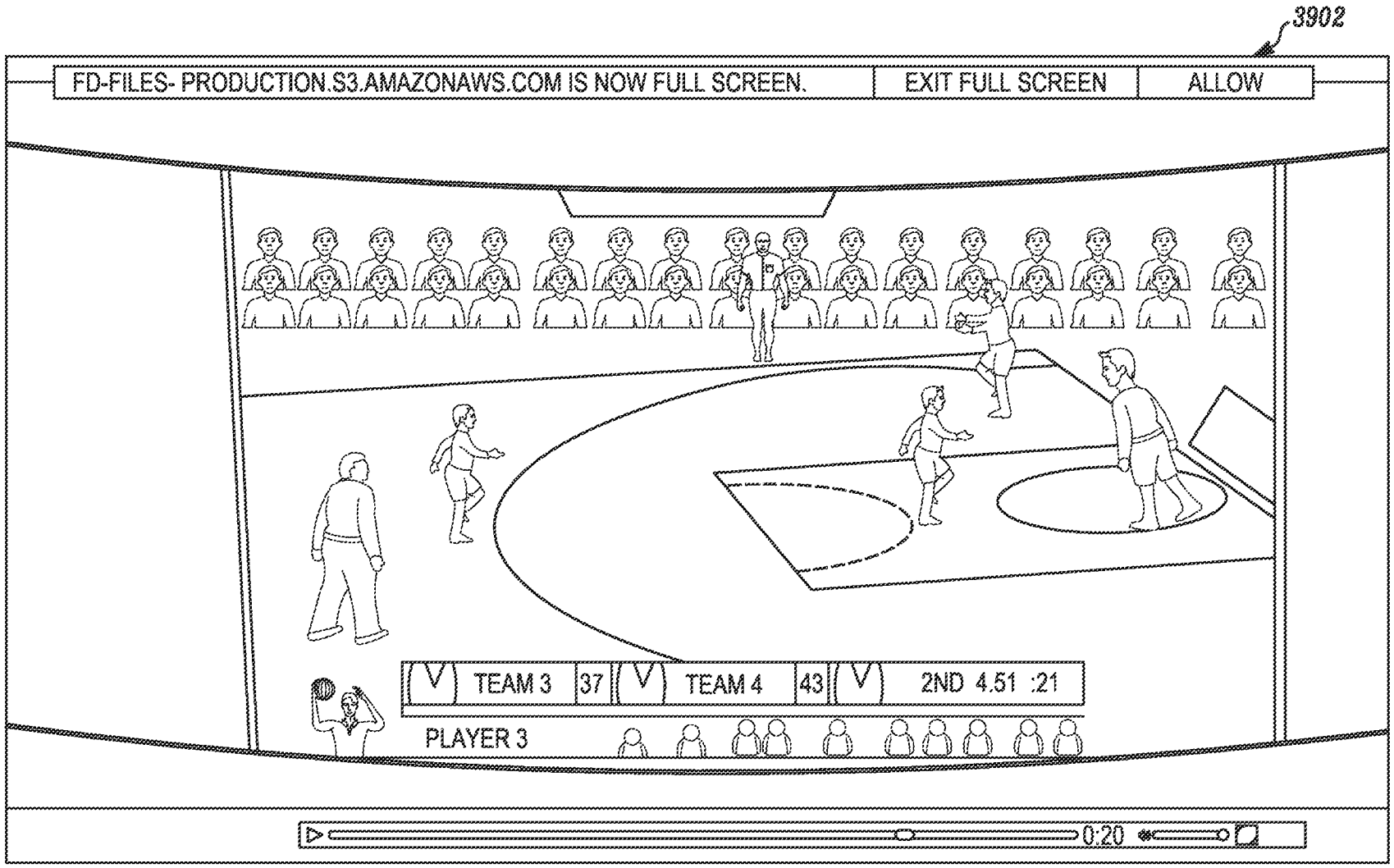

3902
FD-FILES- PRODUCTION.S3.AMAZONAWS.COM IS NOW FULL SCREEN.
EXIT FULL SCREEN
ALLOW
TEAM 3
37
TEAM 4
43
2ND 4.51 :21
PLAYER 3
0:20

FIG. 39E

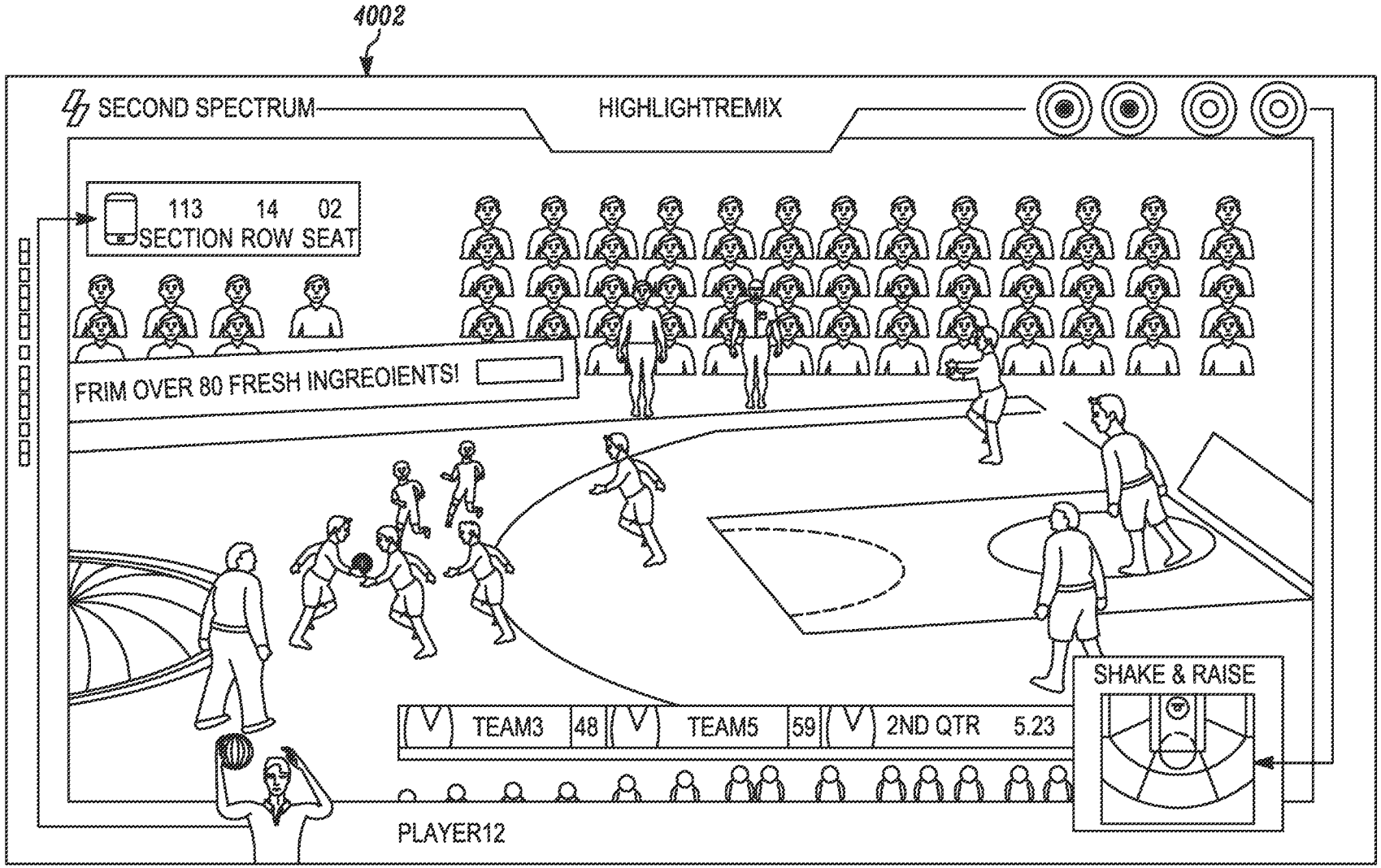

4002
SECOND SPECTRUM
HIGHLIGHTREMIX
113 14 02
SECTION ROW SEAT
FRIM OVER 80 FRESH INGREOIENTS!
SHAKE & RAISE
TEAM3 48
TEAM5 59
2ND QTR 5.23
PLAYER12

FIG. 40

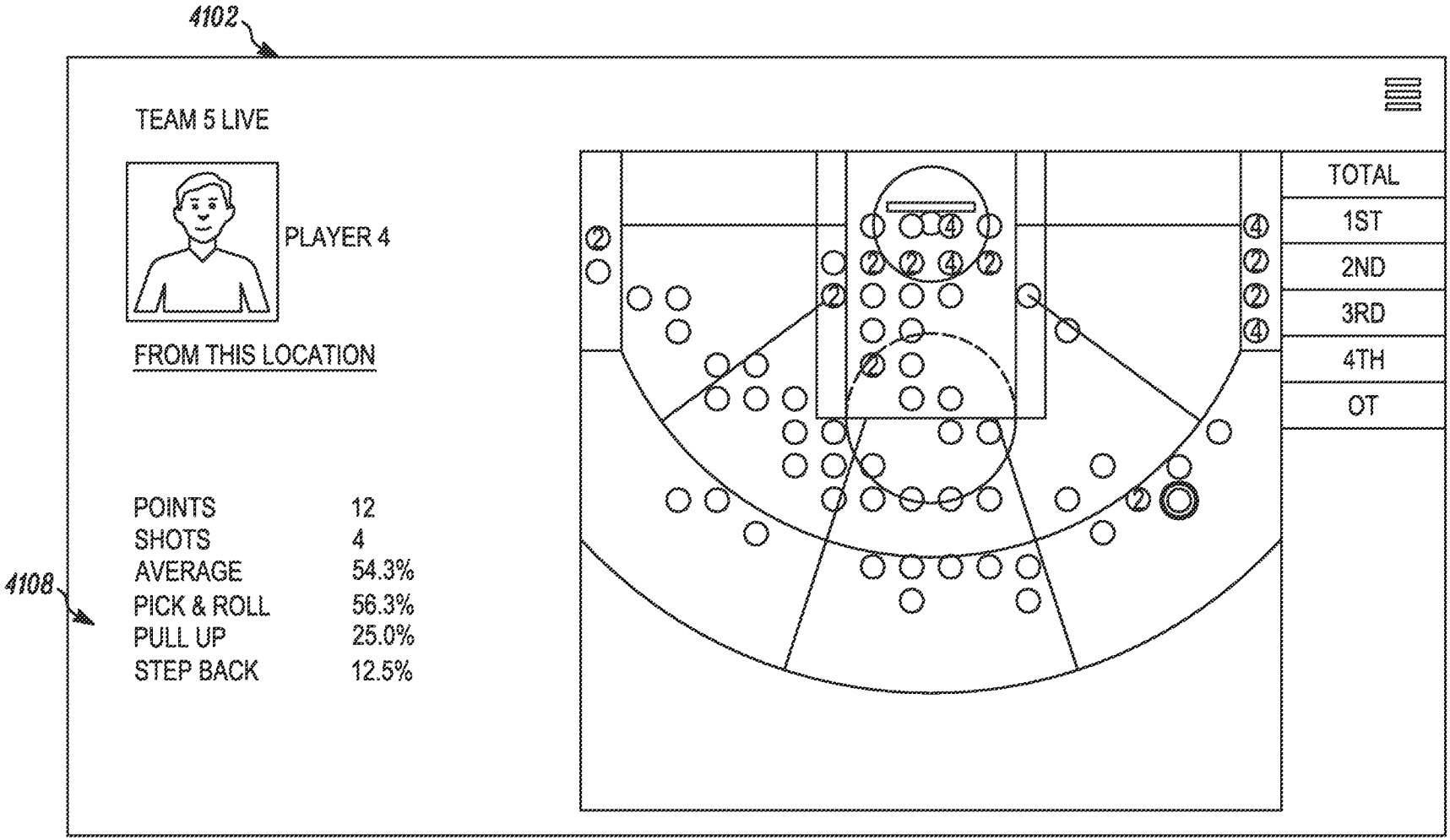

4102
TEAM 5 LIVE
PLAYER 4
FROM THIS LOCATION
4108
POINTS 12
SHOTS 4
AVERAGE 54.3%
PICK & ROLL 56.3%
PULL UP 25.0%
STEP BACK 12.5%
TOTAL
1ST
2ND
3RD
4TH
OT

FIG. 41A

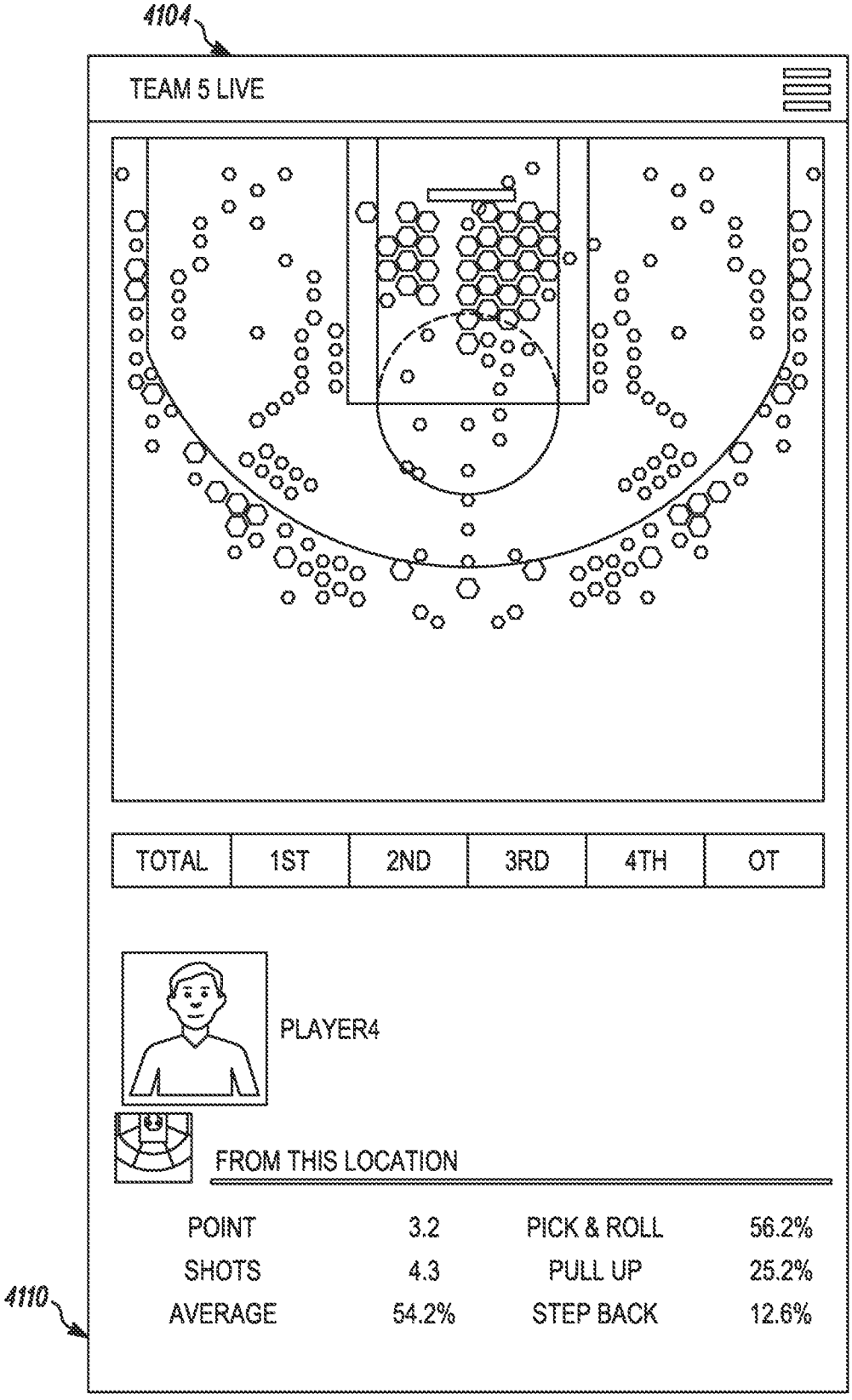

4104
TEAM 5 LIVE
TOTAL
1ST
2ND
3RD
4TH
OT
PLAYER4
FROM THIS LOCATION
POINT 3.2
SHOTS 4.3
AVERAGE 54.2%
PICK & ROLL 56.2%
PULL UP 25.2%
STEP BACK 12.6%
4110

FIG. 41B

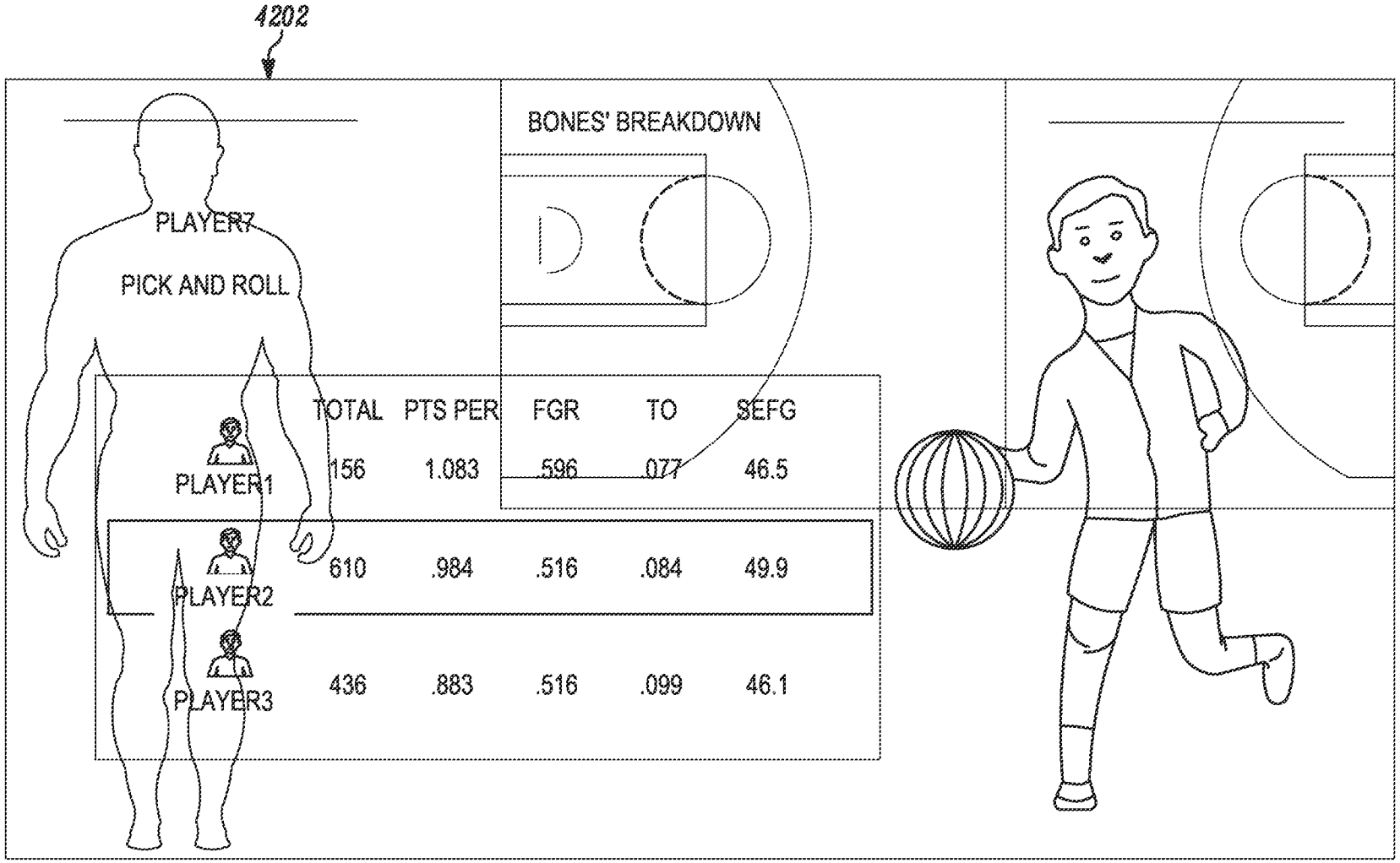

4202
PLAYER7
PICK AND ROLL
BONES' BREAKDOWN
TOTAL PTS PER FGR TO SEFG
PLAYER1 156 1.083 .596 .077 46.5
PLAYER2 610 .984 .516 .084 49.9
PLAYER3 436 .883 .516 .099 46.1

FIG. 42A

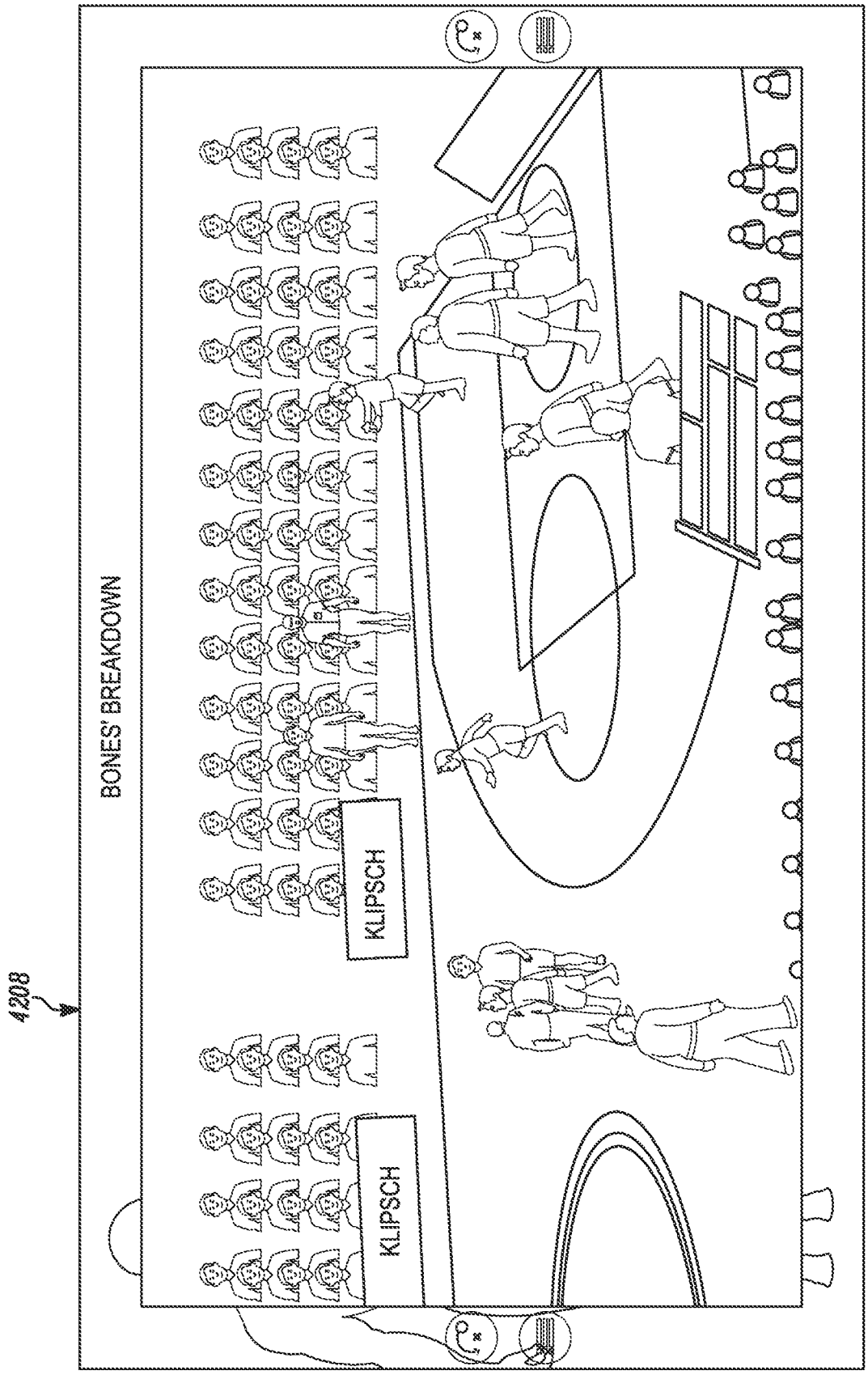


FIG. 42B

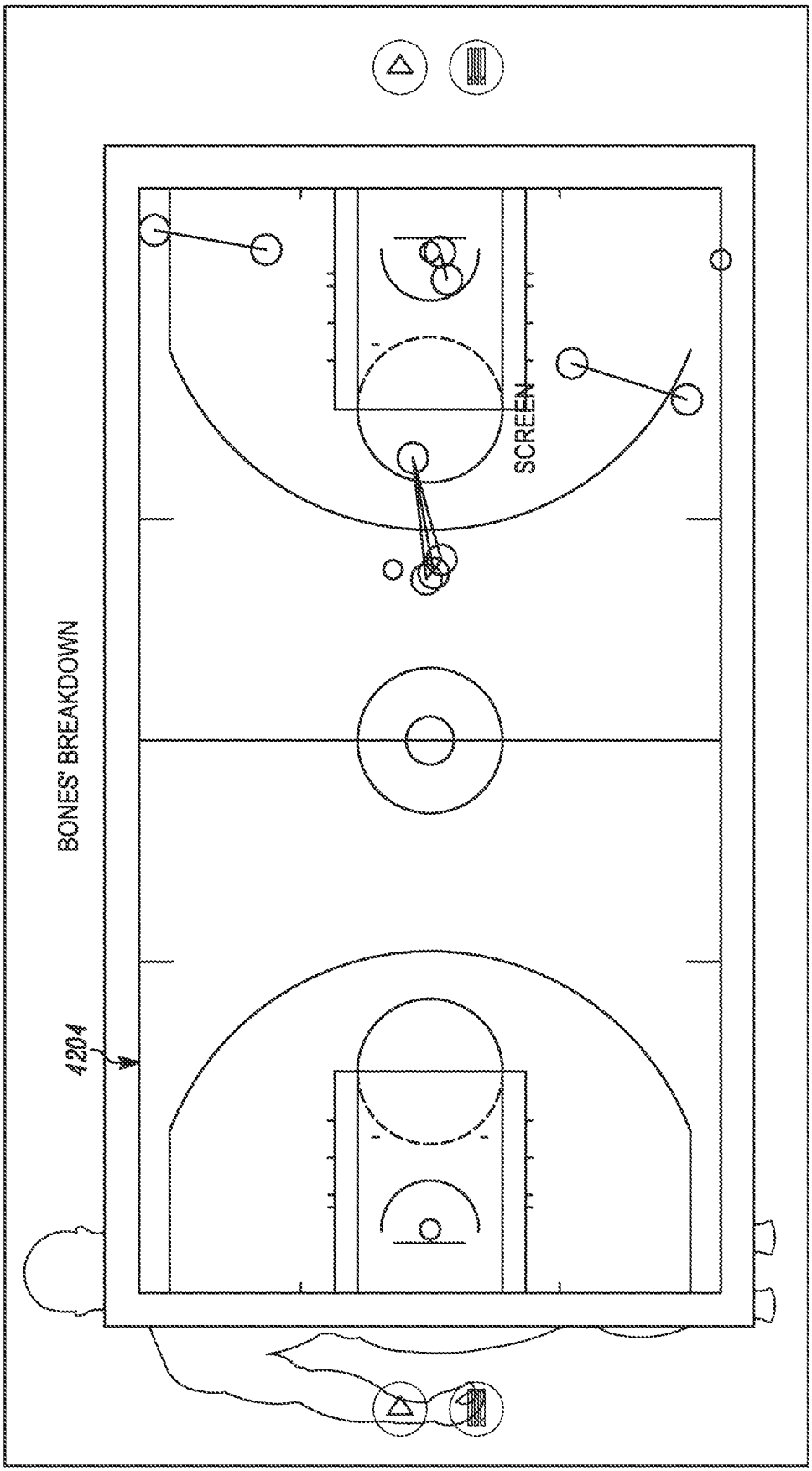


FIG. 42C

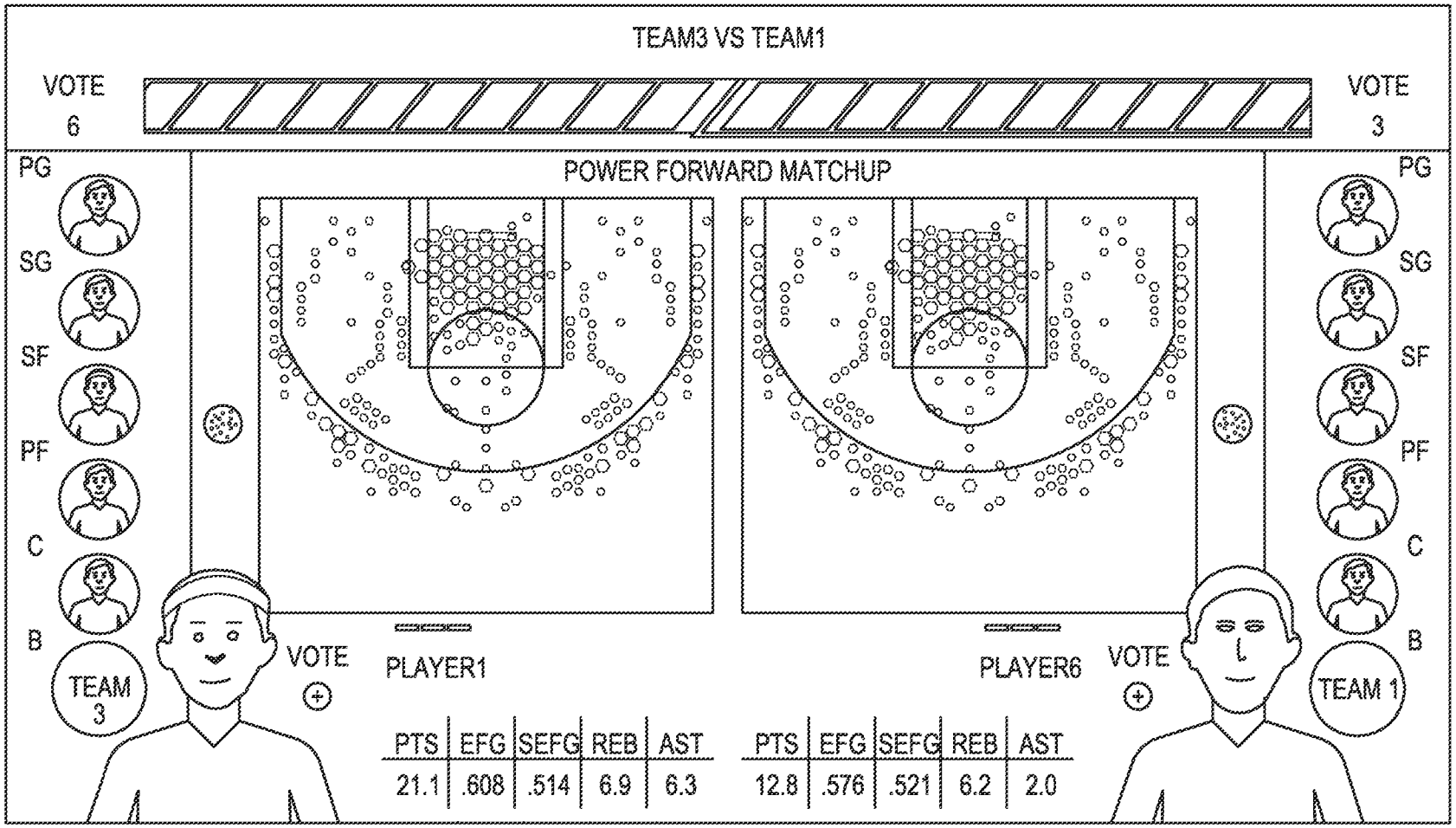

TEAM3 VS TEAM1
VOTE
6
VOTE
3
POWER FORWARD MATCHUP
PG
SG
SF
PF
C
B
TEAM
3
VOTE
PLAYER1
PTS EFG SEFG REB AST
21.1 .608 .514 6.9 6.3
PLAYER6
VOTE
PTS EFG SEFG REB AST
12.8 .576 .521 6.2 2.0
PG
SG
SF
PF
C
B
TEAM 1

FIG. 43

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**01/13/2023 04:10:48 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Linda Doyle
PATENT CENTER #	61436433	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02-SB08-01-13-2023.pdf	7	Information Disclosure Statement (IDS) Form (SB08)	1253 KB
AU2015222869B2_QC.pdf	125	Foreign Reference	24116 KB
WO2011149558A3.pdf	5	Foreign Reference	396 KB
WO1991012583A1.pdf	298	Foreign Reference	9782 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
SGIC-002US02-SB08-01-13-2023.pdf	697154F81A7FB20FF2D2A2953A6FC9A73ADE786A2303E95A9A08E426DB2F6B0F1FA247A321580E43C64D595E2C819F370DAEA51C58B5C07DF3F129505026A8D4
AU2015222869B2_QC.pdf	4B0C636DEA4E1DA58A8FB682A992B4B744EE464217CBEADD99DEEADCB0D86257D9037B9EE4B7B4675A502FC09F5A44321CC6BDA1CDF8452565014D6011E6ABFF
WO2011149558A3.pdf	0BC7EF694E780F86696EF4CB2F050018008FBB72BB15E64434050B0DDEDCF61F9CE6901A3103EE6E52AFB330686DF2C2545F368BEBD71B675B3348B52812E454
WO1991012583A1.pdf	873B3D2313FDA2D58B725592AD4F37AA2E2BEE9F08D7729D638B72A4ACBCA49677E877012CA897E6E3099F63F4548B974DEDB82CEC40700409D2E54F8BB8872E

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/833,188	06/06/2022		896	SGIC-002US02	1	1

CONFIRMATION NO. 7083

UPDATED FILING RECEIPT

149890
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

OC000000137213871

Date Mailed: 01/18/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Peter AZUOLAS, Las Vegas, NV;
Kevin APRIL, Kenilworth, IL;
Brian SILSTON, New York, NY;
Philip Nicholas SCHUPAK, Brooklyn, NY;

Applicant(s)

SportsCastr, Inc., Las Vegas, NV;

Assignment For Published Patent Application

SportsCastr, Inc., Las Vegas, NV

Power of Attorney: None

Domestic Priority data as claimed by applicant

This application is a CON of 16/685,782 11/15/2019 PAT 11356742
which is a CON of PCT/US2018/033016 05/16/2018
which claims benefit of 62/627,859 02/08/2018
and claims benefit of 62/542,729 08/08/2017
and claims benefit of 62/507,158 05/16/2017

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 06/13/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/833,188**

Projected Publication Date: 04/27/2023

Non-Publication Request: No

Early Publication Request: No
** **SMALL ENTITY** **
Title

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign

patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 17/833,188

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A	64		N/A	
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A	280		N/A	
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A	320		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	1 minus 20 =	*	x 40 =	0.00	OR		
INDEPENDENT CLAIMS (37 CFR 1.16(h))	1 minus 3 =	*	x 192 =	0.00			
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).			168			
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))				0.00			
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL	832		TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)		RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".
The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

149890 7590 03/16/2023

SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

EXAMINER	
RAHMAN, SM AZIZUR	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
03/16/2023	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@smithbaluch.com
eofficeaction@appcoll.com
smith@smithbaluch.com

Office Action Summary	Application No. 17/833,188	Applicant(s) AZUOLAS et al.	
	Examiner SM A RAHMAN	Art Unit 2458	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 06/06/2022.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 06/06/2022 is/are: a)☑ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 01/13/2023, 08/22/2022.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Detailed action

1. **Status of Claims:**

Claim 1 is pending in this Office Action.

Priority

2. Examiner acknowledges that this application is a continuation application of U.S. non-provisional application serial no. 16/685,782, filed November 15, 2019, entitled "Systems, Apparatus, and Methods for Scalable Low-Latency Viewing of Integrated Broadcast Commentary and Event Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels," which claims a priority benefit, as a bypass continuation application, to PCT Application No. PCTUS2018033016, filed May 16, 2018, entitled "Systems, Apparatus, and Methods for Scalable Low-Latency Viewing of Integrated Broadcast Commentary and Event Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels," which PCT application in turn claims a priority benefit to U.S. provisional application serial no. 62/627,859, filed February 8, 2018, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels;" U.S. provisional application serial no. 62/542,729, filed August 8, 2017, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels;" and U.S. provisional application serial no. 62/507,158, filed May 16, 2017, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels." Each of the foregoing applications is incorporated by reference herein in its entirety.

Information Disclosure Statement

3. The information disclosure statement (IDS) submitted on 08/22/2022 and 01/13/2023 are in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Double Patenting

4. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process... may obtain a patent therefor..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the claims that are directed to the same invention so they are no longer coextensive in scope. The filing of a terminal disclaimer cannot overcome a double patenting rejection based upon 35 U.S.C. 101.

Claim 1 of the instant application is rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of prior U.S. Patent No. US 11/356,742 B2. This is a statutory double patenting rejection since the claims directed to the same invention have not in fact been patented. Claim 1 is mapped below as an example to show the "same invention".

Conflicting US Patent No. 11/ 356,742 B2	**Instant Application 17/833,188**
1. A system for providing a first plurality of copies of a first broadcaster's live stream of digital content including first live sporting event video-based commentary and integrated audio and/or video of a first live sporting event, from a first broadcaster client device to a first plurality of viewer client devices, the system comprising:	1. A system for providing a first plurality of copies of a first broadcaster's live stream of digital content including first live sporting event video-based commentary and integrated audio and/or video of a first live sporting event, from a first broadcaster client device to a first plurality of viewer client devices, the system comprising:

A) at least one media source to: provide the audio and/or video of the first live sporting event to the first broadcaster client device; receive the first broadcaster's live stream of digital content including the first live sporting event video-based commentary and the integrated audio and/or video of the first live sporting event; provide a first copy of the first plurality of copies to a first viewer client device of the first plurality of viewer client devices via a first video communication channel between the plurality of media sources and the first viewer client device of the first plurality of viewer client devices; and	A) at least one media source to: provide the audio and/or video of the first live sporting event to the first broadcaster client device; receive the first broadcaster's live stream of digital content including the first live sporting event video-based commentary and the integrated audio and/or video of the first live sporting event; provide a first copy of the first plurality of copies to a first viewer client device of the first plurality of viewer client devices via a first video communication channel between the plurality of media sources and the first viewer client device of the first plurality of viewer client devices; and
B) a control server to periodically retrieve, from an event information provider, first event information germane to a first live sporting event, wherein the first event information includes first score information for the first live sporting event; and	B) a control server to periodically retrieve, from an event information provider, first event information germane to a first live sporting event, wherein the first event information includes first score information for the first live sporting event; and
C) at least one socket server communicatively coupled to the control server to: receive from the control server at least the first score information; and transmit the first score information to at least the first viewer client device of the first plurality of viewer client devices via a first event information Internet communication channel between at least one first event socket of the at least one socket server and the first viewer client device of the first plurality of viewer devices, wherein the at least	C) at least one socket server communicatively coupled to the control server to: receive from the control server at least the first score information; and transmit the first score information to at least the first viewer client device of the first plurality of viewer client devices via a first event information Internet communication channel between at least one first event socket of the at least one socket server and the first viewer client device of the first plurality of viewer devices, wherein the at least

one first event socket corresponds to the first event information germane to the first live sporting event, wherein the first copy of the first broadcaster's live stream of digital content provided by the first video communication channel does not include a digital reference to the first score information provided by the first event information channel.	one first event socket corresponds to the first event information germane to the first live sporting event, wherein the first copy of the first broadcaster's live stream of digital content provided by the first video communication channel does not include a digital reference to the first score information provided by the first event information channel.

So, as shown above, this is a statutory double patenting rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SM AZIZUR RAHMAN whose telephone number is (571)270-7360. The examiner can normally be reached on M, F - Telework; T-Th - On Campus;.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Bruckart can be reached on 571-272-3980. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SM A RAHMAN/
Primary Examiner, Art Unit 2458

Notice of References Cited	Application/Control No. 17/833,188	Applicant(s)/Patent Under Reexamination AZUOLAS et al.	
	Examiner SM A RAHMAN	Art Unit 2458	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160255403-A1	09-2016	Gomes; Marcelo Amaral	H04N21/47202	725/49
*	B	US-20090144785-A1	06-2009	Walker; Jay S.	H04N5/262	725/105
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	Art Unit
	SM A RAHMAN	2458

CPC - Searched*		
Symbol	Date	Examiner
(H04N21/6437 OR H04L65/65 OR H04L65/764 OR H04N21/2187 OR H04N21/23106 OR H04N21/23439 OR H04N21/2368).cpc.	03/10/2023	SM Rahman

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
PE2E Search, Google Patent Search, and ip.com Search	03/10/2023	SM Rahman
Double Patenting Search, Assignee Search, and Inventor Search	03/10/2023	SM Rahman

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	**Art Unit**
	SM A RAHMAN	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant			☐ CPA		☐ T.D.		☐ R.1.47			
CLAIM		**DATE**								
Final	Original	03/10/2023								
	1	✓								

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	121284	(H04N21/6437 OR H04L65/65 OR H04L65/764 OR H04N21/2187 OR H04N21/23106 OR H04N21/23439 OR H04N21/2368).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/03/10 03:53 PM
L2	94	("10226698" OR "11451883" OR "20040177002" OR "20070043632" OR "20100070345" OR "20120058808" OR "20120295686" OR "20130225285" OR "20150131845" OR "20160086108" OR "20170264961" OR "20180025586" OR "20200111325" OR "20210397847" OR "20220254379" OR "20220327830" OR "20220335720" OR "5251294" OR "5999908" OR "6529146" OR "6701383" OR "6834371" OR "6839059" OR "6922702" OR "7133834" OR "7729940" OR "8000993" OR "8002618" OR "8112301" OR "8149530" OR "8376855" OR "8738694" OR "8813112" OR "8870639" OR "9511287" OR "9716918" OR "9919210" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 04:00 PM

		"10425697" OR "10484743" OR "10721543" OR "10740305" OR "10805687" OR "10848792" OR "11039218" OR "11356742" OR "20010001160" OR "20010039209" OR "20040003101" OR "20080022347" OR "20080062318" OR "20080168493" OR "20090222754" OR "20100299703" OR "20110083144" OR "20110086144" OR "20110090960" OR "20110280540" OR "20120069131" OR "20120072845" OR "20120210348" OR "20130222597" OR "20130227596" OR "20130297706" OR "20140129680" OR "20140359075" OR "20150163562" OR "20160037215" OR "20160249108" OR "20160360261" OR "20170034237" OR "20170099516" OR "20170188054" OR "20200162796" OR "20210168462" OR "6434621" OR "8128503" OR "8341662" OR "8549574" OR "8595186" OR "8874778" OR "9055271" OR "9106934" OR "9149682" OR "9251852" OR "9288278" OR "9509793" OR "9516390" OR "9584858" OR "9591054" OR "9641566" OR "9654844" OR "9692800" OR "9706443" OR "9878243").pn.					
L3	2	(1 2) AND ((live	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10

		real$1time) WITH broadcast$3 SAME (combin$3 integrat$3) WITH broadcast SAME commentary SAME sport$3 WITH event$1)					05:16 PM
L4	10	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 05:55 PM
L5	0	@ad<"20170516" AND (broadcast$3 WITH sport$3 SAME event$1 AND (integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 05:56 PM
L6	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME periodically WITH (retrieve receive) WITH (copy copies))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:12 PM
L7	0	@ad<"20170516" AND (1 2) AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME periodically WITH (retrieve receive) WITH media WITH (copy copies))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM
L8	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM

		media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency.)					
L9	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM
L10	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency latency))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:17 PM
L11	0	@ad<"20170516" AND (1 2) AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency latency))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:17 PM
L12	1	@ad<"20170516" AND (first WITH video WITH broadcast$3 SAME stream WITH contain$3 WITH digital WITH reference SAME information WITH channel)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 07:03 PM
L13	1	((("SPORTSCASTR") near3 ("INC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/03/10 07:04 PM
L14	15	((("AZUOLAS") near3 ("Peter")) OR (("APRIL") near3 ("Kevin")) OR (("SILSTON") near3 ("Brian")) OR (("SCHUPAK") near3 ("Philip"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/03/10 07:04 PM

L15	0	(13 AND 14) AND (((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 07:06 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10425697	B2	2019-09-24	April et al.	Entire Document
	2	10484743	B2	2019-11-19	Cox	Entire Document
	3	10721543	B2	2020-07-21	Huske et al.	Entire Document
	4	10740305	B2	2020-08-11	Barthel et al.	Entire Document
	5	10805687	B2	2020-10-13	April et al.	Entire Document
	6	10848792	B2	2020-11-24	Evans	Entire Document
	7	11039218	B1	2021-06-15	April et al.	Entire Document
	8	11356742	B2	2022-06-07	AZUOLAS et al.	Entire Document

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	Attorney Docket Number	SGIC-002US02

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	Examiner Name	
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5
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	Examiner Name	
	Attorney Docket Number	SGIC-002US02

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Dhruv Sud/	Date (YYYY-MM-DD)	2022-08-22
Name/Print	Dhruv Sud	Registration Number	80,578

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Bibliographic Data

Application No: 17/833,188

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /SM A RAHMAN/ /S.A.R./

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Title: SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/06/2022	709	2458	SGIC-002US02
RULE			

APPLICANTS

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Kevin APRIL, Kenilworth, IL, UNITED STATES

Brian SILSTON, New York, NY, UNITED STATES

Philip Nicholas SCHUPAK, Brooklyn, NY, UNITED STATES

CONTINUING DATA

This application is a CON of 16685782 11/15/2019 PAT 11356742

16685782 is a CON of PCT/US2018/033016 05/16/2018

PCT/US2018/033016 has PRO of 62627859 02/08/2018

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17833188
	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SGIC-002US02

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph Teja, Jr./	Date (YYYY-MM-DD)	2023-01-13
Name/Print	Joseph Teja, Jr.	Registration Number	45157

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Search History 17833188

Report Run Date: 2023-03-11 UTC
Searches: 3
Markers: 0

Genius Sports Ex. 1049
p. 726

Search #	Timestamp	Results	Page
1	2023-03-11 00:10 UTC	20,321,931	3
2	2023-03-11 00:18 UTC	15,253,160	4
3	2023-03-11 00:25 UTC	14,028,978	4

Content: Patents + NPL (192)

US Patents | US Designs | US Applications | EPO Patents | EPO Applications | China Patents | China Applications | Japan Patents | Japan Applications | Korea Patents | Korea Applications | WIPO Applications | Argentina Patents | Argentina Applications | Brazil Patents | Brazil Applications | Canada Patents | Canada Applications | Chile Patents | Chile Applications | Colombia Applications | Costa Rica Applications | Cuba Patents | Cuba Applications | Dominican Republic Applications | Ecuador Patents | Ecuador Applications | El Salvador Applications | Guatemala Applications | Honduras Applications | Mexico Patents | Mexico Applications | Nicaragua Patents | Panama Applications | Peru Applications | Trinidad & Tobago Patents | Uruguay Applications | Austria Patents | Austria Applications | Belarus Patents | Belgium Patents | Belgium Applications | Bosnia & Herzegovina Patents | Bosnia & Herzegovina Applications | Bulgaria Patents | Bulgaria Applications | Croatia Patents | Croatia Applications | Czech Republic Patents | Czech Republic Applications | Czechoslovakia Patents | Czechoslovakia Applications | Denmark Patents | Denmark Applications | Estonia Patents | Estonia Applications | EUIPO Patents | Finland Patents | Finland Applications | France Patents | France Applications | Germany Patents | Germany Applications | Great Britain Patents | Great Britain Applications | Greece Patents | Greece Applications | Hungary Patents | Hungary Applications | Iceland Patents | Iceland Applications | Ireland Patents | Ireland Applications | Italy Patents | Italy Applications | Latvia Patents | Latvia Applications | Lithuania Patents | Lithuania Applications | Luxembourg Patents | Luxembourg Applications | Malta Patents | Monaco Patents | Montenegro Patents | Montenegro Applications | Netherlands Patents | Netherlands Applications | Norway Patents | Norway Applications | Poland Patents | Poland Applications | Portugal Patents | Portugal Applications | Republic of Moldova Patents | Republic of Moldova Applications | Romania Patents | Romania Applications | San Marino Patents | San Marino Applications | Serbia Patents | Serbia Applications | Slovakia Patents | Slovakia Applications | Slovenia Patents | Spain Patents | Spain Applications | Sweden Patents | Sweden Applications | Switzerland Patents | Switzerland Applications | Ukraine Patents | Yugoslavia/Serbia and Montenegro Patents | Yugoslavia/Serbia and Montenegro Applications | Armenia Patents | Australia Patents | Australia Applications | Cyprus Patents | Gulf Cooperation Council Patents | Hong Kong Patents | India Patents | India Applications | Indonesia Patents | Indonesia Applications | Israel Patents | Israel Applications | Jordan Patents | Jordan Applications | Kyrgyzstan Patents | Macao Applications | Malaysia Patents | Mongolia Patents | New Zealand Patents | Philippines Patents | Philippines Applications | Saudi Arabia Patents | Saudi Arabia Applications | Singapore Patents | Singapore Applications | Taiwan Patents | Taiwan Applications | Tajikistan Patents | Tajikistan Applications | Thailand Patents | Thailand Applications | Uzbekistan Patents | Vietnam Patents | Algeria Patents | ARIPO Patents | ARIPO Applications | Egypt Patents | Kenya Patents | Malawi Patents | Morocco Patents | Morocco Applications | OAPI Patents | South Africa Patents | Tunisia Applications | Zambia Patents | Zimbabwe Patents | EAPO Patents | EAPO Applications | Georgia Patents | Georgia Applications | Kazakhstan Patents | Kazakhstan Applications | Russia Patents | Russia Applications | Turkey Patents | Turkey Applications | IEEE Xplore Publications: IEEE Periodicals | IEEE Xplore Publications: IEEE Conferences | IEEE Xplore Publications: IEEE Standards | IEEE Xplore Publications: IEEE Early Access | IEEE Xplore Publications: SMPTE Periodicals | IEEE Xplore Publications: SMPTE Conferences | IEEE Xplore Publications: SMPTE Standards | IEEE Xplore Publications: MIT Press eBooks | IEEE Xplore Publications: Wiley-IEEE eBooks | IEEE Xplore Publications: IBM Periodicals | IEEE Xplore Publications: URSI Periodicals | IEEE Xplore Publications: VDE Conferences | IEEE Xplore Publications: Periodicals from China | IP.com Prior Art Database: The IP.com Journal | IP.com Prior Art Database: Internet Society RFC | IP.com Prior Art Database: IBM TDB Archive | IP.com Prior Art Database: Legacy Journals | IP.com Prior Art Database: Software Patent Institute | OnePetro.org: Periodicals at OnePetro.org | OnePetro.org: Conferences at OnePetro.org | Other Literature: IBM Redbooks | Other Literature: PubMed Central | Other Literature: arXiv.org

1 **2023-03-11 00:10 UTC | 20,321,931 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

at least one first event socket corresponds to the first event information germane to the first live sporting event,

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p. 728

wherein the first copy of the first broadcaster's live stream of digital content provided by the first video communication channel does not include a digital reference to the first score information provided by the first event information channel

Concept Modifiers: None

Filters: None

2 **2023-03-11 00:18 UTC | 15,253,160 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
telecasting live broadcasting of sporting event of audio video in different channels and the first video event on first channel does not show digital reference

Concept Modifiers: None

Filters: None

3 **2023-03-11 00:25 UTC | 14,028,978 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
integrating live broadcasting sporting event in multiple channels and periodically copy event while no digital representation is displayed

Concept Modifiers: None

Filters: None

Web Search History

date, time	web site	search string
3/10/2023 7:19:47 PM	Google Patents	Search Term 1 (live broadcasting of sporting event of audio video in different channels and the first video event first channel digital reference)
3/10/2023 7:23:47 PM	Google Patents	Search Term 1 (integrating live broadcasting sporting event in multiple channels and periodically copy event digital representation is displayed)

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02

CONFIRMATION NO. 7083

PUBLICATION NOTICE

149890
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

OC000000137819188

Title:SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Publication No.US-2023-0126229-A1
Publication Date:04/27/2023

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Examiner Name	
Attorney Docket Number	SGIC-002US02

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	1	In-Play MultiBet Unlock new in-play revenues, GeniusSports Website, March 13, 2023, 4 pages	☐
	2	Integration Guide - Genius Live Player, GeniusSports Drop & Play Integration Guide, November 28, 2022, 1 page	☐
	3	Integration Schema - Integration Process GeniusSports Wiki, May 29, 2023, 4 pages	☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99)**

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

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A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jonathan K. Tong/	Date (YYYY-MM-DD)	2023-09-13
Name/Print	Jonathan K. Tong	Registration Number	77374

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

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Examiner Name	
Attorney Docket Number	SGIC-002US02

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	Attorney Docket Number	SGIC-002US02

	1	Virtuals, GeniusSports Drop & Play Integration Guide, November 28, 2022, 1 page	☐
	2	WALLSTREET, John, Genius Sports-Caesars NFL Betting Live Stream Validates Vision, December 21, 2022, Sportico, 4 pages	☐
	3	Warehouse - Read Stream API Documentation -American Football!, GeniusSports Developer Centre Website, May 12, 2021, 14 pages	☐
	4	Warehouse - Read Stream API Documentation -Basketball, GeniusSports Developer Centre Website, July 30, 2017, 27 pages	☐

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Art Unit	
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Attorney Docket Number	SGIC-002US02

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10015224	B1	2018-07-03	Shen et al.	Entire Document
	2	10105596	B1	2018-10-23	Mann	Entire Document
	3	10116989	B1	2018-10-30	Shen et al.	Entire Document
	4	10129310	B1	2018-11-13	Brunning	Entire Document
	5	10243694	B1	2019-03-26	Marcin et al.	Entire Document
	6	10313412	B1	2019-06-04	Hall et al.	Entire Document
	7	10326814	B1	2019-06-18	Hall et al.	Entire Document
	8	10327040	B1	2019-06-18	Shen et al.	Entire Document

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	Attorney Docket Number	SGIC-002US02

	9	10397291	B1	2019-08-27	Hall et al.	Entire Document
	10	10437551	B1	2019-10-08	Stanek et al.	Entire Document
	11	10484730	B1	2019-11-19	Li et al.	Entire Document
	12	10554324	B1	2020-02-04	Lim et al.	Entire Document
	13	10630746	B1	2020-04-21	Shen et al.	Entire Document
	14	10681398	B1	2020-06-09	Marcin et al.	Entire Document
	15	10715860	B1	2020-07-14	Bartlett et al.	Entire Document
	16	10735783	B1	2020-08-04	Shen et al.	Entire Document
	17	10742699	B1	2020-08-11	Shen et al.	Entire Document
	18	10970904	B1	2021-04-06	Kosmiskas	Entire Document
	19	11039102	B1	2021-06-15	Marcin et al.	Entire Document

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	Art Unit	
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	Attorney Docket Number	SGIC-002US02

	20	11076111	B1	2021-07-27	Ni et al.	Entire Document
	21	11076188	B1	2021-07-27	Purushe	Entire Document
	22	11146834	B1	2021-10-12	Shen et al.	Entire Document
	23	11153581	B1	2021-10-19	Purushe	Entire Document
	24	11157233	B1	2021-10-26	Stanek et al.	Entire Document
	25	11178447	B1	2021-11-16	Panter et al.	Entire Document
	26	11425178	B1	2022-08-23	Shen et al.	Entire Document
	27	11425219	B1	2022-08-23	Lee et al.	Entire Document
	28	11445246	B1	2022-09-13	Eatedali	Entire Document
	29	11457245	B1	2022-09-27	Bhatia et al.	Entire Document
	30	11533543	B1	2022-12-20	Suh et al.	Entire Document

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	31	11658822	B1	2023-05-23	Engers et al.	Entire Document
	32	8214429	B2	2012-07-03	Chidel et al.	Entire Document
	33	8858313	B1	2014-10-14	Selfors	Entire Document
	34	9954646	B1	2018-04-24	Marcin et al.	Entire Document

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	1	56 Bit Sportradar Case Study, Sportradar Time System 2022 accessed at https://www.56bit.com/case-studies/sportradar-time-system on February 16, 2023, 5 pages	☐
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	3	Betbuilder Architecture, GeniusSports, October 13, 2022, 5 pages	☐
	4	BetBuilder evolves to provide the ultimate pre-match experience, GeniusSports Website 09/18/2019, 3 pages	☐
	5	Betbuilder Integration - Prebuilt bets GeniusSports Wiki, May 25, 2021, 2 pages	☐
	6	Betbuilder Integration, GeniusSports, October 13, 2022, 1 page	☐
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	9	Betgenius Streaming, Bring your sportsbook to Life-Right Around the Clock, December 3, 2020, 2 pages	☐
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	11	Betradar Audio-Visual Brochure 2022, 8 pages	☐
	12	Betradar Audio-Visual Brochure 2023, 9 pages	☐
	13	Betradar Brochure - MTS SDK .NET Integration Guide - October, 2020 accessed at https://sdk.sportradar.com/mts/net/file?g=ab6006f6-f554-482f-92db-26af416eec92 on February 17, 2023, 14 pages	☐
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	15	Betradar Brochure Live-Data Service 2022 accessed at https://www.betradar.com/wp-content/uploads/sites/4/2022/11/Live-Data-Brochure-2022.pdf, 5 pages	☐
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	19	Betradar Live Channel Online, December 31, 2022, 3 page	☐
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	22	Betradar Live Streaming Brochure 2019, accessed at https://betradar.com/wp-content/uploads/sites/4/2015/07/Live_Channel_Brochure_2019.pdf on February 24, 2023, 7 pages	☐
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	24	Betradar Product Brochure 2015, 27 pages	☐
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	28	Betradar Top Reasons to Use the New AV API, July 31, 2019, accessed at https://www.betradar.com/news-archive/61-reasons-to-use-the-new-av-api/ on February 24, 2023, 2 pages	☐
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	32	Betradar Unified Odds-Integration Information for Development, October 11, 2017 accessed at https://insidectrl.com/wp-content/uploads/2017/10/2017-10-11_Betradar_Unified-Odds_Developer_Integration-1.pdf on February 16, 2023, 80 pages	☐

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	34	BOOLABUS, Bring it to life with Betstream, February, 2011, 22 pages	☐
	35	Common Match State Platform APIs GeniusSports Wiki July 5, 2022, 2 pages	☐
	36	Gammastack-Betradar Integration Architecture, December 29, 2022 accessed at https://www.gammastack.com/betradar-integration/ on February 16, 2023, 7 pages	☐
	37	GammaStack-Betradar Integration Services, Betradar Software, December 29, 2022, accessed at https://www.gammastack.com/betradar-integration-services/ on February 17, 2023, 6 pages	☐
	38	Genius Play Integration Guide, Drop and Play, GeniusSports Wike Website, July 19, 2021, 7 pages	☐
	39	Genius Sports Expands Partnership with NFL to Provide Watch & Bet Video Streams For the 2022 Season, Starting with Caesars Entertainment, BusinessWire, December 5, 2022, 2 pages	☐
	40	Genius Sports launches In-Play Multi Bet for the next generation of same game parlay bets Genius Sports Press, October 5, 2022, 3 pages	☐
	41	Genius Sports Live Sports Data Integration, GeniusSports Wiki, July 5, 2022, 2 pages	☐
	42	Genius Sports Live Sports Data Pull APIs, GeniusSports Wiki, July 5, 2022, 2 pages	☐
	43	Genius Sports Live Sports Data Push API via ably, GeniusSports Wiki, November 28, 2022, 7 pages	☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17833188
	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SGIC-002US02

	44	Genius Sports slashes cost and lowers latencies for last-mile live sports data delivery, Ably, August 9, 2022, 8 pages	☐
	45	GENUSSPORTS, Genius Sports Agrees to Official Data, Trading & LiveStreaming Partnership with Bally's Interactive, August 25, 2022, 3 pages	☐
	46	GL-Video-v2, GeniusSports Explorer API Website; accessed March 10, 2023, 28 pages	☐
	47	GL-Video-v3, Swagger, February 2023, 9 pages	☐
	48	HALPIN Introducing Extensions: A Streaming Revolution, Twitch, August 31, 2017, 5 pages, obtain at website: https://blog.twitch.tv/en/2017/08/31/introducing-extensions-a-streaming-revolution-c31762addcd9/ on June 7, 2023, 5 pages	☐
	49	How Genius Sports delivers realtime data to their customers' frontend at speed and at scale, Webinar, May, 2021, Ably, 3 pages	☐
	50	How to Integrate It, GeniusSports Drop & Play Integration Guide, November 28, 2022, 5 pages	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (**Not for submission under 37 CFR 1.99)**		
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	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jonathan K. Tong/	Date (YYYY-MM-DD)	2023-09-13
Name/Print	Jonathan K. Tong	Registration Number	77374

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**09/13/2023 02:40:17 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Linda Doyle
PATENT CENTER #	62781023	AUTHORIZED BY	Jonathan Tong
CUSTOMER #	149890	FILING DATE	06/06/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter AZUOLAS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1006	**E20239CE41058317**	**Linda Doyle**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

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National Stage of an International Application under 35 U.S.C. 371

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

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17/833,188	**09/13/2023 02:40:17 PM ET**	**SGIC-002US02**

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CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Jonathan Tong

Documents

TOTAL DOCUMENTS: 97

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
56Bit_Sportradar_case_study_Time_System2023.pdf	5	Non Patent Literature	414 KB
API_Feed_Overview_Genius Sport_01-31-2022.pdf	3	Non Patent Literature	616 KB
Betbuilder_Architecture_GeniusSports_10-13-22.pdf	5	Non Patent Literature	3221 KB
BetBuilder_evolves_to_provide_GeniusSports_09-18-2019_QC.pdf	3	Non Patent Literature	5124 KB

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23_BETRADAR_Market-leading_Product_Brochure_2022_QC_npl_Part1.pdf	14	Non Patent Literature	23452 KB
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42_GeniusSports Live_Sports_Data_Pull_APIs_GeniusSports_07-05-22_npl.pdf	2	Non Patent Literature	1102 KB
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48_HALPIN_Introducing_Extensions_08-05-2017_5pages_npl.pdf	5	Non Patent Literature	613 KB
49_How_Genius_Sports_delivers_realtime_dataABLY_May_2021_npl.pdf	3	Non Patent Literature	585 KB
44_GeniusSports_slashes_cost_Ably_8-9-2022_npl.pdf	8	Non Patent Literature	7262 KB
50_How_to_Integrate_It_GeniusSports_Drop&Play11-28-2022_QC.pdf	5	Non Patent Literature	10435 KB
45_GENIUSSPORTS_Agrees_Official_Data_08-25-2022_npl.pdf	3	Non Patent Literature	20021 KB
001_In-Play_MultiBet_Unlock_new_in-play_revenues_GeniusSports_3-13-2023_QC.pdf	4	Non Patent Literature	4736 KB
002_Integration_Guide__Genius_Live_Player_GeniusSports_11-28-2022_npl.pdf	1	Non Patent Literature	513 KB
003_Integration_Schema_Integration_Process_GeniusSports_05-29-23_npl.pdf	4	Non Patent Literature	1216 KB
004_Integration_Schema_Integration_Service_Interface_GeniusSports_12-16-20_npl.pdf	2	Non Patent Literature	862 KB
005_Integration_Schema_Integration_Service_GeniusSports_04-13-2022_npl.pdf	16	Non Patent Literature	9662 KB

006_Integration_Schema_Service_Reliability-Availability_GeniusSports_03-29-23_npl.pdf	2	Non Patent Literature	1453 KB
007_Integration_Schema_GeniusSports_10-11-19_npl.pdf	2	Non Patent Literature	461 KB
008_SGIC-004WO01_ISR_WO_mailed_05-13-2022_npl.pdf	22	Non Patent Literature	1539 KB
009_Introducing_Drop_Play_Medium_BetGenius_7-5-2022_npl.pdf	3	Non Patent Literature	414 KB
010_LEMIRE_Sportradar_Launches_Sports_Business_Journal_10-27-2020_npl.pdf	1	Non Patent Literature	795 KB
011_LiveSports_Data_Int_API_Explorer_Genius_Ably_Push_03-20-23_npl.pdf	5	Non Patent Literature	2882 KB
012_LiveSports_Data_Int_Authenticating_against_APIs_GeniusSports_08-12-2022_npl.pdf	2	Non Patent Literature	1065 KB
013_LiveSports_Data_Int_Match_State_Platform_API_GeniusSports_08-12-22_npl.pdf	3	Non Patent Literature	1545 KB
014_LiveSports_Data_Int_Statistics_API_GeniusSports_08-18-22_npl.pdf	5	Non Patent Literature	2106 KB
015_LiveStats_Version_7_Data_StreamingGeniusSports_12-05-20_QC_npl.pdf	3	Non Patent Literature	3430 KB

016_Livestream-READ-FAQs_GeniusSports_Developer_7-31-2017_npl.pdf	4	Non Patent Literature	574 KB
017_MENMUIR_Betgenius_launches_next-level_SBNews_10-08-2019_npl.pdf	2	Non Patent Literature	388 KB
018_Multibet_Back-End_Int_MarketLifetime_GeniusSports _02-13-23_2pages_npl.pdf	2	Non Patent Literature	783 KB
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023_Multibet_Front-End_Int_UI_Widget_Custom_GeniusSports_02-13-23_npl.pdf	4	Non Patent Literature	1377 KB
024_Multibet_Front-End_Int_GeniusSports_02-13-23_npl.pdf	2	Non Patent Literature	1063 KB

025_Read-Read_stream_live_game_events_GeniusSports_11-2-2016_npl.pdf	28	Non Patent Literature	845 KB
026_References_GeniusSports_Drop&Play11-28-22_npl.pdf	1	Non Patent Literature	109 KB
027_Risk_Services_Integration_GeniusSports _03-20-23_npl.pdf	10	Non Patent Literature	8247 KB
028_SmartStream_Integrations_GeniusSports_10-26-22_npl.pdf	4	Non Patent Literature	2625 KB
029_Sportradar_Data_Services_2019_npl.pdf	3	Non Patent Literature	2712 KB
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Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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Betradar_Audio-Visual_Brochure_2023_QC_npl.pdf	FC1E8D60C3A2D2893BB78E185676F6EAD5B9D65907D600DE30156CF2F8255B373660D5B29E4872C2F07C2394E67724F66D42C50F087721C322E56EDBD33E61BD
Betrader_Brochure_MTS_SDK_Java_int_guide_May_2019.pdf	960D36DBE3EE16355C8835A1BD4987DD2BA1FFAA3FC447A1A04FD35C711BB71B2551387877937F33AE27BD7924CF546739B3198DFB0D23F2735F7BD3225870E1
14_Betradar_Brochure_Live_Scouting_2015_QC_npl.pdf	94E15E1C1B970DB0DA196A8A6D6DFCCBAE47F45BF9A8272F9648A53E7CCAC19C66C79478ED7CBA074426BDCB454C57867577E43A6F37B3684530FDACD6F086D4
15_Betradar_Brochure_Live-Data_Service_2022_npl.pdf	998D40B467F131DFCB32CD9F481DCA6ABD6C897B0B20BA4B53B94539E170900F2E3026E857D03E2130525239F4810288E7B337B158B9EF0CDF2899B6E17683AD
Betrader_Brochure_MTS_SDK_NET_integration_guide_October_2020_qc_npl.pdf	4E1DA8FD527FE7086AADA0E1A5882BADC0BB64F1D47F619C82D6C03FCDE8699321540EBEF48E9BB9D8B5D1013C10C47C7E16B772B3C0215CBA0D553C1851CB20
Betradar_Ctrl_Manual_July_2019_QC_Part1.pdf	8FE630CB2BFE26B4DF63FA4DCBA1D4CF3B92147E5494C281A27A6FEB8328930ABC7AB65EBF0D0EC0F0618AD113354D31244D2A9F2538750FC9BF469384C9593B
Betradar_Ctrl_Manual_July_2019_QC_Part2.pdf	4D39422F85B4B41E49D382A8C206FAF64EB35FAF10C8077AD8A42717A3FD515A6EDEBC5DC6A12B4BE5271BBC6C378E435BD2011C77D95C3B664AB4E5CE937A9E
Betradar_Ctrl_Manual_July_2019_QC_Part3.pdf	848FA63FE6961F0C9560DFC6A554D2C511F0B14989412DEB2D0564FB39D5F4E41323BE260F506592693F6DFBC530A19B698DBB062F5693546B85ADC8E94C653D
Betradar_Ctrl_Manual_July_2019_QC_Part4.pdf	FE622205037DDA2D068EB8E97FCD2221891C02A69A27E85BA8EE8BE8668BA1BA3A94F50193811DCD1234604CCE04C45FD4B809D851F330FAA0849C71107375FE
Betradar_Ctrl_User_Manual_M	A948B64E309935958DB4F416ADB8CA2B3425C4F555DC3C415

arch_2021_QC_Part1.pdf	BD2D34A5262F59DB0BB3369025ED0B81D11571CAB9BA73E8B2593FEFB81D96B002BA3B93DE40F11
Betradar_Ctrl_User_Manual_March_2021_QC_Part2.pdf	6A4269E00281BA1A3007CC8B6565EE2CED0BB816F458AB058D7C4846332C0F15126585DD31F59CBF79B7E8D2D17B34B2C30B91DBCC91BA18B9FFAAC36FEAE31E
Betradar_Ctrl_User_Manual_March_2021_QC_Part3.pdf	3552982234C62AC74FE2A24C9AAE1F55BFE7B3E108E3A463CB3238BAB9243ABF45BA9D3FA439334C7968B34A0933490E96EFF6BEBC400A0375F2EB5EEFA1E123
Betradar_Ctrl_User_Manual_March_2021_QC_Part4.pdf	6D6E3BAC960C699CDFECE8E4D4A6A58AE00960213F8B5722019FA819BA69F660A89B3F950DE0B989F6B8E010D4386901B462DED85ECECB27A711635680E79541
Betradar_Live_Channel_Online_12.31.2022.pdf	71257515AE1BAB9F6D3D0A0A609B0AC8BC2C1B707FA4A901BF337E7CF830B52A241551D1A45F819C4901E564D22D7DD5E6F9C0F357FC7B6B9B45A0426D091410
Betradar_Live_Channel_Trading_12-31-2022.pdf	47BFC5FABB62F1DFA6AA75B9F5614B1B0317B659AD89ECCCD803A44FE1406AF76BB353BD46E8EA80E244D3A175867F62886ACEB1B519494C99B6D03DD537EDFE
21_Betradar_Live_Data_Efficiently_Operating_in-running_12-30-2022_npl.pdf	19716EC99884B248775F4AC37486F7FDDFEB36145F81DAC886147067A35C0B16ED5F61B8625143491B94B77F1F0B56134B34225CDC0CF23A416B1F6C1545A5B0
22_Betradar_Live_Streaming_Brochure_2019_QC_npl.pdf	D7439A896981A8CA56B3227B3E3B64BAFF5DF8DAE30C76042FC4D67F6397A2F2330A0E00E96763EA3C48E43075FA19A3D4AE92210CF035BE0ED63D03D28A1B16
23_BETRADAR_Market-leading_Product_Brochure_2022_QC_npl_Part1.pdf	AD6D915585633C4EB9426D0A8E6DEBAC587E72502E73D4FD3502C18670EA41F61725F224226DB7E7F3513B9894AEB94B194E6FEA7CC3453305B3EBBE340F723C
23_BETRADAR_Market-leading_Product_Brochure_2022_QC_npl_Part2.pdf	8AEDE82925A8A9E162B683A4780B749B906AD3AE4EAAA67A027365EF26021DEC0CFC620B91375FE636F1A512EC82BBEF2AC5FE10020E7E142A31A1D99F54DD80
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_2015.pdf	B6D65C9E9D80E7ED05F6B2CA3ED837026E778717B35A8ED6034ABEC0E5A3A13EBD74B51E635F6CD
BETRADAR_Product_Brochure_2016.pdf	11697FE718DD4182E98525D946B418F1188A6508A758316A8E00CD861CF6D66BBE8607DE97A78BC1C4722270332ECEB97CB6F5B272DE464F5AAA814F8A09A8D2
BETRADAR_Product_Brochure_2018.pdf	EB9B244701048A0A9B4016A2474A064E89B948F08B53E70AF67A6364E6FB8EC11593AECD7E8804EE85FDA85D66F119060E59C68EBD7A404A8E5B765B50D0D644
BETRADAR_Product_Brochure_2019.pdf	79BCC8696818FD16911D7DD1D3A7D8E061D2C73B275DE12BB2B7D8F76730A5EBEA554D6CCE3BF1386BBC3CE471600AD05487856152F792984028A3248FA9F42F
28_Betradar_Top_reasons_AV_API_07-31-2019_npl.pdf	540FFD25B58D9B64740BBAC290F896B0E719FEDB3B6540FA8201FE711BE4F12BEAB895F10EF43A80BD9F8F18DA2229B986B9B1DF563E900D144C403CB1A4762B
29_Betrader_Unified_Odds_Quick_start_guide_05-16-2018_npl.pdf	BCE3933CC48BCF486E252E72D30EFA8081DBFC1ADE4AFDF937E1C72A7F8F303529B540BF1C01ED056064F123F4B267182537924BC847DDEE9A4C6C2BD91D6C6D
30_Betradar_Unified_Odds_Quick_Start_Guide_05-30-2022_6_pages_npl.pdf	E8887B4577CF37D87041A6C837D2ADEA1DD51BEF57677CC339282DF3C424B472EBB4162B0CE03B7E625A08D17C0387E655D3E330542D5B271EE6F2FFECD15922
31_Betradar_Unified-Odds_Integration_03-27-2019_QC_Part1_npl.pdf	561F22CE2A2D35B32694A599C52C96EAC5D91235ACA42D5317812B742DFEBABE54A7FDF48CB610A11A210D2DB27AAF674AE52F12AF8E5A6DC48F79964FB69566
31_Betradar_Unified-Odds_Integration_03-27-2019_QC_Part2_npl.pdf	A69658A551D8953CB89F6E6C193421E638E8432E89515B73A30ED04C7114B74A4B49D7F3B5EF39D1E42C25D244275F562228EA3436D8F4B90B717769C4E36417
31_Betradar_Unified-Odds_Integration_03-27-2019_QC_Part3_npl.pdf	72B9374C2F27493B0FAA413E83CCF8D213B4DEE5115DC64D75EFE37574DA793BFA646AD5A659D9605956D2BD118DB0497E4536931BDEBC8601585E60F1CF7A0A
31_Betradar_Unified-	7A16D9DBC47195991912C3CD0BF095C375293E101C8535E52

Odds_Integration_03-27-2019_QC_Part4_npl.pdf	600094F757A645211D6521C2FC36558AFD2BEB3A21823EE528952DF33496FDD87B5D1351A1A6EF7
32_Betradar_Unified-Odds_Integration_10-11-2017_QC_Part1.pdf	F2E98749D9EB58254F80BE9CB83E517D09714152469EBA2938385B35DF0A988E6FE1D5691AABAE59717235236310D246E7AC0FD890D8177AB4108968DCCC139C
32_Betradar_Unified-Odds_Integration_10-11-2017_QC_Part2.pdf	91E8388D33E7945109FE26D6B1EA424AE3D12B3FF25342B02320B3FAF2EF1E8DC06DC4FB7BAF9E6E44C44DF220F59CEB3FE3159FB18F2C8B04B31EBAA48C5804
33_Betradar_Live_Channel_Brochure_2017_QC_npl.pdf	A9747CC1C52A0926B869D43BC6F759B75B029CFA8590FA028ADF15809B1F6D90D0333F75FED796A867E69F90669E19AE2FE8C75427998A47371C2B8F35166147
34_BOOLABUS_Bring_to_life_w_Betstream_Brochure_Feb_2011_part1_npl.pdf	90CB7EF630E865993AD25AD22C847F5D09EF961B200F9BC27DA2BCDD86AD93CC115C67860D592BED33C93FDD7497A125C9D0962D2B17E85A709DCC3C25673F11
34_BOOLABUS_Bring_to_Life_w_Betstream_Brochure_Feb_2011_Part2_npl.pdf	86B48A0932A877E73EC02D7901259301478FD5A18B7AD8A35C667DF9204FCC0E392D28B1963F338CD1BD8FA02846638FAF4E5DF2A0BDD28A432FC022763707C0
34_BOOLABUS_Bring_to_Life_w_Betstream_Brochure_Feb_2011_Part3_npl.pdf	952EFBE6B9CDB2482129DD4BC8D8BCFE6E1EF692B39F404E995075EAD4BDDBC1A437C99609F738F7869C809C220457F97DE726DC13E13B20BC0F129C9297A360
34_BOOLABUS_Bring_to_Life_w_Betstream_Brochure_Feb_2011_Part4_npl.pdf	C766F61473099ABE09B615DBB6C506F7E6CBC58D11453089D33085D2E97F488F2E49D14BF4E4CD8C879E7A8EF21E34FED7442F08D15ADBBAC7CD5AE755DD9DCA
35_Common_Match_State_Platform_APIs_GeniusSports_07-05-22_npl.pdf	2417409246904294F7E997BCC6C58736F0E7D091A693ECB937A29093BAA3F82554D7EC9DC434B4767AAFBC74548769DCF960BA26F63ACF3EBEC8140DC484D1D3
36_Gammastack-Betradar_Integration_Architecture_12-29-2022_npl.pdf	9D5D9AE589F3C67A3E83F251FA6E9211DD786D8781A5772CC05933258C17364DF5B54709122B0D36563E95B4B098088779A3450A3C114CEA729C02F89055FE00
37_GammaStack_Betradar_Inte	766A50EAA5B1D6A3346780AB51928D9DE538706CA84EEE547

gration_Services_12-29-202_npl2.pdf	C1EF209B4B1AA544B785DB46CEAAE6BBD80FC19FA903374883E0AF8A5A7040B37D79BF2028D095A
38_Genius_Player_Integration_Guide_Drop_Player_GeniusSports_Wiki_07-19-2021_npl.pdf	7C9D4E7CC6266DB15258B63E215AD71E1BC198E3A6FC1FF44DA74E819C5B89B68A78B40D12E4A9446ACA7E534411A760B0300C3B597E327A2425E2D3E6D29AB2
39_GeniusSports_Expands_Partnership_w_NFL_BusinessWire_12-5-2022.pdf	2C98C6FC581C9FB8B06C18D94936D689556315699A3C23D92A08F5A391987D73FF23ED6D8B5A7405D86C116A7ADB885ACC4C4FDB7CB90FEBA34E9975D5C10CC3
40_GeniusSports_launches_In-Play_MultiBet_GeniusSportsPress_10-5-22_QC.pdf	D51CADEE26F7F4FDE4B8A3223F6106FB08AC04F52DD7CFFC1BE5983C5A5FCDAC078F9D17132F7F18017346F64ABE0F50B1A7F9F99F766D7ADAAE40AA6D6743F3
41_GeniusSports_Live_Sports_Data_Int_GeniusSports_07-05-22_npl.pdf	14AEC4E623F222F72D76091BB954B45674B767193D46024BCAD5FE622FB4F8D137220CB6F186AAC3DA755B8AF3B0E3825F8D329190BEA60708F7811522E822EB
42_GeniusSports Live_Sports_Data_Pull_APIs_GeniusSports_07-05-22_npl.pdf	9617CD8FF45D99E2EA1AE5E93DDA5ED2E65EBD99C552E21CCEF2B5ED66D0F3E0AC98AC0DAC657388BAC46C592F556FE64A6AE453B99F658DC6C427DFD37F11F6
43_GeniusSports_Live_Sports_Data_Push_API_GeniusSports_11-28-22_npl.pdf	04E6B62D7F40F18BA27CCC61385094DAE895EDD5CFE80A59356646B05CD0F6C87D2E3074FD54669ADABB858A38BEF849A9CDF7AF3390DBD93470B5583367DB37
47_GL-Video-v3_Swagger_February_2023_npl.pdf	08D87CCEB9F675F70299404F0FCBE7BCD89094D99373A36A656E0B4C60D5878EB87894718BD8A21DC37EDF4F86D70493BDCC1F047E9A7D4EDA3CCD72EB85AC6E
46_GL-Video-v2_GeniusSports_Explorer_API_3-10-23_28pages_npl.pdf	9F966C08FBBCE286CAE4E245F045DCC0228C638DFE59F6EFFF438E15821E53B056B8ADBFBE14B3005BAFB3048949B90387BF2C528B1DA6CF58588E082899F64D
48_HALPIN_Introducing_Extensions_08-05-2017_5pages_npl.pdf	58B82BA32609389DDD0A0E3BE21EFCA651148503D09F3533A1F15EE518F4FF4EC32FF6F8916DCA99A6A88F58DEEF52F9DEC1857AF6139CFE9ACC202628754975
49_How_Genius_Sports_deliver	9EC75E4224D989FB1B62BBCE2917351F1A6F399D1ECC5888F

s_realtime_dataABLY_May_2021_npl.pdf	B95F4060EF43D29B5B31A66A83E583ABC246878C8C423190E7467C6A212487281E2ABF4C464CC02
44_GeniusSports_slashes_cost_Ably_8-9-2022_npl.pdf	AD1DCB6BF111D6043CC97F31DA6FCCAED153FAA1A34E59D6DF1D20590B974617C46C8C0307F4C89F05007958410C7C3D3B538251AACFE692777D1B7B503DA7B0
50_How_to_Integrate_It_GeniusSports_Drop&Play11-28-2022_QC.pdf	97E4E45163C80F7618A3A4DD4A2D874F9FF9488D8289A4DABCD303CAD2AF345E2E9A9D28965C565A35AE0936032E8F0843AB6D347F48851102AC3B8ADB5E1270
45_GENIUSSPORTS_Agrees_Official_Data_08-25-2022_npl.pdf	8DF558705565EA68A64FDB574B06D0C982BB9C0DC32F6DD9708D295490EC859C9104C3A1139727F18E33F6F216E9240E79942995CBBC843A3761F67E2195F562
001_In-Play_MultiBet_Unlock_new_in-play_revenues_GeniusSports_3-13-2023_QC.pdf	93D021F407121CCA6BCA3B9899E3E4A90A74A5648A51734BB857C17CEFE5FB537BA0A4C56DFAC8C828F6B7199AC53D70EB8EFC8C0C5FBB2D64082425C309BBF7
002_Integration_Guide___Genius_Live_Player_GeniusSports_11-28-2022_npl.pdf	AFAF71CEC56940268BBDE88552EB8C99BE0DD967DC88EF68D8BFB0464056CE07CA22CC834B05D76D89AB3E0A33C65D971EC9BA8AC79BA185624C89B513F6D63C
003_Integration_Schema_Integration_Process_GeniusSports_05-29-23_npl.pdf	FFAF5C4BF9041A124F12CEDAC93690417A5A402D251C5EA9C2784F57F426BE1467ECCC84F11AA928521DDE3C42A8DA8EED7C72BA7954D4D9D627860A8B9F9C81
004_Integration_Schema_Integration_Service_Interface_GeniusSports_12-16-20_npl.pdf	07955D84868D7F5268638C9A99FFFFE53029CA33AEFA255A60588C40BB8F0A1378B54B026FD3527858738C1E0B1EA6B845CFDD8DC8DFF33625AFBC21818A89C2
005_Integration_Schema_Integration_Service_GeniusSports_04-13-2022_npl.pdf	8AE47ACA5431AB8BAF71D703775CDFDBAB609A9D2D2C074073867DA47ABA2250029E284B72008204005E84F629CF8A650D345AC44224131124AB746397193F68
006_Integration_Schema_Service_Reliability-Availability_GeniusSports_03-29-23_npl.pdf	88BECB6B69ECC426DF22B1CB2C02C1426090CBC468E89E3D51D0057B07EFFC9A275BBF2C0BE01644B23AA5DFDD0404DACDCB932DA3348506F60FE9DF1D545ACC

007_Integration_Schema_GeniusSports_10-11-19_npl.pdf	60EBFD201973F756416992355E1805A32F8449B6EE8C687ABC4192791EF247DA7FADB276FB5B038C75C32F511EEE6BD253A89C6F04C6F89F2C566770176A6FED
008_SGIC-004WO01_ISR_WO_mailed_05-13-2022_npl.pdf	5F7EFBB61C9B11DD8F79D0A6BA54DCAB5CCC655D6E0083F3412F7EF9D92BB5B125024F3030E163F102C571A0DBCB60BF8EEE2D940679B74C5AFC90BE576D29AA
009_Introducing_Drop_Play_Medium_BetGenius_7-5-2022_npl.pdf	1A4CFEF74DAB1F439C8FB1E090194CFF8CA3A34D1D359F8226437221C9CA8ED490108CF62F76B88B04BF0BBEF31CC74F87F427633B40D5F6C7EC6CD32325262B
010_LEMIRE_Sportradar_Launches_Sports_Business_Journal_10-27-2020_npl.pdf	5BB59514C8AC55816D3281248036CE4F25D1A0622A993DA757EAE174C7653187367D5346EBDA9C2D17026642DB10013C484221C1AD282F4D6F5FA4AA628BA9C1
011_LiveSports_Data_Int_API_Explorer_Genius_Ably_Push_03-20-23_npl.pdf	FCD3628BE99E5C88CEA41558916401AC1E95CD6DB461E87E8AA4D894CA1737DBF6CAABE74F080F8DE5D0E0D2DCB101B2E24A4E073F8D2FF9FE8BA7E3E10A16E2
012_LiveSports_Data_Int_Authenticating_against_APIs_GeniusSports_08-12-2022_npl.pdf	7B5DC397DFC40A71DA87BF2987B44E5C75C0FD5D0DA70200497E7E4E160D66DB3C18BBBCB8ED4197836A5574B9F975373F2264615E3B0A6E87E72EE39154989C
013_LiveSports_Data_Int_Match_State_Platform_API_GeniusSports_08-12-22_npl.pdf	43B828DFFDD41396F355D026A6E69B84DB887F6DE22C91E876BE9BFD17B2B8631F121A4751B59B40BB1AFBAD53FBE2EAEB041A2B851173B3D36DE5E6F5569BE3
014_LiveSports_Data_Int_Statistics_API_GeniusSports_08-18-22_npl.pdf	871AAB2F9C31F3F2171957DF753DFCD54355005273ACE37B629DEE386EF058DB6318C2D8B00C30A53A4CEB403AC4EB85A5FF39B4FC86943185D3DD5ABC2C6262
015_LiveStats_Version_7_Data_StreamingGeniusSports_12-05-20_QC_npl.pdf	3F37838923A95E0FE6F09141349F46FD0C8AA0EDA7AB713902C1C4D9F43AD4F2BB456677DA02FA768CF2271AE8831475F6B860FE3B1FE399E3710A5B6CE04D4F
016_Livestream-READ-FAQs_GeniusSports_Developer_7-31-2017_npl.pdf	4F4B95D02C390ECF0A545E3C6C28C44180871E0AFE02E7F9D0898ED46BC625EA5E934D6AD7D1A01AE39A5DB8F8D76867B057AE36DC7658E4F9FD7D710FBA5565

017_MENMUIR_Betgenius_launches_next-level_SBNews_10-08-2019_npl.pdf	8B915336944D0C91FE04C276B7D621C62469BF838C3BEC3D682A8A81FE9CFCDFC221C6DDF36D4C5AD84A5E7ABD2FF6C9D561ECDF562168735F793D628DED189A
018_Multibet_Back-End_Int_MarketLifetime_GeniusSports _02-13-23_2pages_npl.pdf	26A458606C3CF1B58D49011C4CD94ABC47E973DDB4904B5FE1169A26D9B3C9914BFF6295F1DB93A24C0BA1E31921929F9242E515EF53B34C355AB2CF72C97C5D
019_Multibet_Back-End_Int_Multibet_API_GeniusSports_03-15-23_10pages_npl.pdf	2C213C63418A06F258D5F5842E9C01DB1545A1EBD98376BBA7CACB35F90E90B1B15FA379D0B5DE24816090A2BEF7B7E7A0D4E3ACE5A6A56081559D8537301BA5
020_Multibet_Back-End_Int_GeniusSports_02-13-23_npl.pdf	EC0BC3E1D6366174856ABEDEF0023F38379FBBA0A561FE1D2912C98FAD0251A1106CC041E858D81F0EE89CBC6382C306B96672586462F7BE94CCE08FAD19CEA0
021_Multibet_Back-End_Int_Multibet_Sportsbook_Int_V3_GeniusSports_02-13-23_5pages_npl.pdf	DB39BCA9E30053D847311B472D09B58A32622AB429D2CDC33CAE2F5A7C2B330631BDF50D6179046E36B53CD9F1C06128002F0A4C6FA8B7A73F927CBF2648A01C
022_Multibet_Front-End_Int_Authen_Proxy_Service_GeniusSports_02-13-23_npl.pdf	D2236DE1BCC87E8BA6B6DA5042703CCF30E81610A033FD814CF9E31E1DA19867F3710045B7AD0D0B7A51BC1F5EEE01216093AB868DB057E2EDE8F562AB56F5AF
023_Multibet_Front-End_Int_UI_Widget_Custom_GeniusSports_02-13-23_npl.pdf	562B608A0A9A691EAFCB03F47C625B8CB222BBA4056E0D875333E75D296A789B5E637CFAB702A72EDCE4AD51388E8258098ECC7B2718B548D325890B16EB0134
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025_Read-Read_stream_live_game_events_GeniusSports_11-2-2016_npl.pdf	F85BCBC981428D104D846ED831C34503CBD20A3023D75C4CB9CD4D280BFDD130926B686EF81DA97C1E7B0B9962515A6F99AD2D15DB33B6B1D12DF1E85AF23382

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029_Sportradar_Data_Services_2019_npl.pdf	753D1D0ECBBC17FC8A905F3F4A5A7833CCE17B3165CCB4B824874F80993523AE143C8DA98609F3A4F29D082D08E48BAF19BDB058DDA78990F765D0451CCF2CF1
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SGIC-002US02_SB08-09-15-2023_1_OF_3.pdf	FF19B4CA4010A2B35A5FF92B80BBE2B3DFA5C0F8CD6F6973AB35FC274FBEE39F8E768D228FD631DFB5E141B0E0BB0C642F6503D2813C60677CCDD6049034D884
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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C.

371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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PATENT AND TRADEMARK OFFICE

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APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**09/13/2023 02:43:41 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Linda Doyle
PATENT CENTER #	62781782	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Jonathan Tong

Documents

TOTAL DOCUMENTS: 30

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
031_Sportradar_Aspera_2017_npl.pdf	2	Non Patent Literature	745 KB
032_Sportradar_Bookmaker_SDK_Deployment_Guide_07-03-2014_npl.pdf	5	Non Patent Literature	1567 KB
033_Sportradar_Bookmaker_SDK_Developer_Guide_09-07-2015_QC_npl.pdf	11	Non Patent Literature	6416 KB
034_Sportradar_brochure_Un	14	Non Patent Literature	6122 KB

ified_Odds_Feed_Integration_Process_10-15-2021_QC_npl.pdf			
035_Sportradar_Drive_Fan_Behavior_w_Insights_04-14-2021_npl.pdf	4	Non Patent Literature	733 KB
036_Sportradar_LIve_Streaming_with_FASPStream_2017_npl.pdf	2	Non Patent Literature	745 KB
037_Sportradar_Livescore_setup_April_2021_QC_npl.pdf	8	Non Patent Literature	4270 KB
038_Sportradar_NFL_V7_02-07-2023_5pages_npl.pdf	5	Non Patent Literature	11348 KB
039_Sportradar_Sports_Data_API_12-23-2022_npl.pdf	3	Non Patent Literature	899 KB
040_Sportradar_Streams_Australia_Open_Digital_Media_World_2019_npl.pdf	3	Non Patent Literature	2265 KB
041_Sportradar_Supercharge_OTT_Solution_05-13-2020_npl.pdf	3	Non Patent Literature	2276 KB
Sportradar_SEC_F-1_Filing_2021_Part1.pdf	56	Non Patent Literature	22952 KB
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Sportradar_SEC_F-1_Filing_2021_Part3.pdf	45	Non Patent Literature	23075 KB
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043_Streaming_Grab_Attention_w_Video_2022_npl.pdf	4	Non Patent Literature	5450 KB
044_Styling_Genius_Live_Player_GeniusSports_Drop&Play_11-28-2022_npl.pdf	2	Non Patent Literature	1837 KB
045_Understanding_Match_State_GeniusSports_03-24-23_npl.pdf	2	Non Patent Literature	1094 KB
046_Video_Integration_Player_User_Guide_02-25-2021_npl.pdf	1	Non Patent Literature	115 KB
047_Video_Streaming_API_GeniusSports_Wiki_Website-3-24-2021_npl.pdf	1	Non Patent Literature	270 KB
048_Video_Streaming_GeniusSports_Wiki_03-26-2021_npl.pdf	1	Non Patent Literature	448 KB
049_Video-Streaming-v1_Swagger_April_2019_npl.pdf	3	Non Patent Literature	1670 KB
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051_Virtuals_GeniusSports_Drop&Play11-28-22_npl.pdf	1	Non Patent Literature	353 KB
052_WALLSTREET_Genius_NFL_Betting_12-21-2022_npl.pdf	4	Non Patent Literature	890 KB
053_Warehouse_Read_Stream_API_Doc_AmericanFootball_GeniusSports_5-12-21_npl.pdf	14	Non Patent Literature	1262 KB
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Digest

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031_Sportradar_Aspera_2017_npl.pdf	1F1C3D52CD8EDCBF34E98A26D8168DBC8562519D41A9D8E80DB12278B3CD673B0A3610B744A5D9DEC752EC0C380773E0DF49F22543F78DE17BA3016D835033D1
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050_Video-v2_Swagger_April_2019_npl.pdf	3E72F89574FEC3737CB69E527D77C07D6B926C9AF6CC62027D6B08161AA30FDA9DEA18283D57F0ACC0FD700E39ACABC5972C557E1E0EB45FFD8AD126CC7AAA8F
051_Virtuals_GeniusSports_Drop&Play11-28-22_npl.pdf	56158BE73FF787F91E1161053FA7EB9FEA6B0296A3D8B70B6A833B35276F6D9BE7E42EBF7F8DBD801E4D0D3073FED23476902C7A5FAE7F48C576950358503F3D
052_WALLSTREET_Genius_NFL_Betting_12-21-2022_npl.pdf	182FDC644303F2380C8D42859EF0FE291910A264B8591F3B904118E3C9161D71FCE3ECB8A97D0A91D2037A38797F4C3A79FD7616588DC6BDFA1E031259DB5CF1
053_Warehouse_Read_Stream_API_Doc_AmericanFootball_GeniusSports_5-12-21_npl.pdf	F82E537AD3598AA3513A232572D8F1ACE9273C5DCB31615285B8CE928BB27DC65A23B46A1F7919639DBF5618C03195E54E2D718E1B3561F3B6387BAE6CEA1ECA
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AMENDMENTS TO THE TITLE

Please amend the title as follows:

SYSTEMS, APPARATUS, AND METHODS FOR ~~SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND~~ PROVIDING EVENT VIDEO STREAMS ~~OF LIVE EVENTS,~~ AND ~~SYNCHRONIZATION OF~~ SYNCHRONIZED EVENT INFORMATION ~~WITH VIEWED STREAMS~~ VIA MULTIPLE INTERNET CHANNELS

AMENDMENTS TO THE CLAIMS

1. (Cancelled).

2. (New) A system, comprising:

at least one media source to receive an audio/video feed of a live event and provide a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source; and

a webserver configured to:

transmit first instructions to a first client device that includes at least one first display, the first instructions transmitted by the webserver enabling the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted by the webserver cause the first client device to:

connect to the first media server endpoint of the at least one media source to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed of the live event;

connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first client device, first digital content corresponding to the first event information;

render, on the at least one first display of the first client device, at least some of the first event information as at least one first user-interactive feature overlaid on or adjacent to the first video relating to the live event; and

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least one first user-interactive feature; and

transmit second instructions to a second client device that includes at least one second display, the second instructions transmitted by the webserver enabling the at least one second display of the second client device to also render the first

event information relating to the live event, wherein the second instructions transmitted by the webserver cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information so that the first digital content received at the first client device and the second client device is synchronized and client-by-client latency between the first client device and second client device to render the first event information is thereby mitigated or significantly reduced;

render, on the at least one second display of the second client device, at least some of the first event information as at least one second user-interactive feature; and

obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app when a second user selects at least a portion of the rendered at least one second user-interactive feature.

3. (New) The system of claim 2, wherein:

the at least one media source is configured to:

receive the audio/video feed of the live event;

provide the first copy of the audio/video feed of the live event from the first media server endpoint;

receive from the first client device a composite outgoing stream of the audio/video feed and additional video content; and

provide a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source; and

the webserver is configured to transmit the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

4. (New) The system of claim 3, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

the at least one RTMP media server is configured to receive the audio/video feed of the live event and transmit a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

the at least one HLS server is configured to provide the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint.

5. (New) The system of claim 2, further comprising the socket server.

6. (New) The system of claim 5, further comprising:

a control server, coupled to the socket server, to provide the first digital content corresponding to the first event information to the socket server.

7. (New) The system of claim 2, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

8. (New) The system of claim 2, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

9. (New) A method, comprising:

A) receiving, by at least one media source, an audio/video feed of a live event;

B) providing a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source;

C) transmitting first instructions to a first client device that includes at least one first display to enable the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted in C) cause the first client device to:

connect to the first media server endpoint of the at least one media source to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed of the live event;

connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first client device, first digital content corresponding to the first event information;

render, on the at least one first display of the first client device, at least some of the first event information as at least one first user-interactive feature overlaid on or adjacent to the first video relating to the live event; and

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least one first user-interactive feature; and

D) transmitting second instructions to a second client device that includes at least one second display to enable the at least one second display of the second client device to render the first event information relating to the live event, wherein the second instructions transmitted in D) cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information so that the first digital content received at the first client device and the second client device is synchronized and client-by-client latency between the first client device and

second client device to render the first event information is thereby mitigated or significantly reduced;

render, on the at least one second display of the second client device, at least some of the first event information as at least one second user-interactive feature; and

obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app related to the live event when a second user selects at least a portion of the rendered at least one second user-interactive feature.

10. (New) The method of claim 9, further comprising:

E) receiving, by the at least one media source from the first client device, a composite outgoing stream of the audio/video feed and additional video content; and

F) providing a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source,

wherein D) further comprises transmitting the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

11. (New) The method of claim 10, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

A) comprises receiving, by the at least one RTMP media server, the audio/video feed of the live event and transmitting a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

B) comprises providing the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint of the at least one HLS server to the first client device.

12. (New) The method of claim 9, wherein:
the live event is a sporting or gaming event; and
the first event information is online gaming information.

13. (New) The method of claim 9, wherein:
the live event is a sporting or gaming event; and
the first event information is score information.

14. (New) A system, comprising:
at least one media source to receive an audio/video feed of a live event and to provide a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source; and
a webserver to transmit first instructions to a first client device that includes at least one first display, wherein the first instructions enable the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, and wherein the first instructions transmitted by the webserver cause the first client device to:
connect to the first media server endpoint to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed; and
connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first client device, first digital content corresponding to the first event information.

15. (New) The system of claim 14, wherein the webserver is configured to transmit second instructions to a second client device that includes at least one second display to

enable the at least one second display of the second client device to render the first event information relating to the live event, wherein the second instructions transmitted by the webserver cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information.

16. (New) The system of claim 15, wherein the webserver is configured to transmit the second instructions to the second client device to further enable the at least one second display of the second client device to render the first video relating to the live event and render the first event information relating to the live event, wherein the second instructions transmitted by the webserver cause the second client device to:

connect to the first media server endpoint to receive, on a fourth communication channel between the first media server endpoint and the second client device, the first copy of the audio/video feed.

17. (New) The system of claim 15, wherein:

the at least one media source is configured to:

receive the audio/video feed of a live event;

provide the first copy of the audio/video feed of the live event from the first media server endpoint;

receive from the first client device a composite outgoing stream of the audio/video feed and additional video content; and

provide a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source; and

the webserver is configured to transmit the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

18. (New) The system of claim 17, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

the at least one RTMP media server is configured to receive the audio/video feed of the live event and transmit a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

the at least one HLS server is configured to provide the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint.

19. (New) The system of claim 15, further comprising the socket server.

20. (New) The system of claim 19, further comprising:

a control server, coupled to the socket server, to provide the first digital content corresponding to the first event information to the socket server.

21. (New) The system of claim 15, wherein the first instructions transmitted by the webserver cause the first client device to:

render, on a first portion of the at least one first display of the first client device, the first video relating to the first event based on the first copy of the audio/video feed received on the first communication channel; and

render, on a second portion of the at least one first display of the first client device, the at least some of the first event information based on the first digital content received on the second communication channel.

22. (New) The system of claim 21, wherein the first instructions transmitted by the webserver cause the first portion of the at least one first display of the first client device to be adjacent to the second portion of the at least one first display of the first client device.

23. (New) The system of claim 21, wherein the first instructions transmitted by the webserver cause the first portion and the second portion of the at least one first display of the first client device to be at least partially overlapping.

24. (New) The system of claim 21, wherein the first instructions transmitted by the webserver cause the second portion of the at least one first display of the first client device to include only at least one text element and/or at least one graphics element.

25. (New) The system of claim 21, wherein the first instructions transmitted by the webserver cause the second portion of the at least one first display of the first client device to include at least one interactive element.

26. (New) The system of claim 25, wherein the first instructions transmitted by the webserver cause the first client device, when a user of the first client device interacts with the at least one interactive element, to:

launch further graphics or animations;

receive additional information about the first event; and/or

navigate to an Internet location.

27. (New) The system of claim 25, wherein the first instructions transmitted by the webserver cause the first client device, when a user of the first client device interacts with the at least one interactive element, to navigate to an Internet location.

28. (New) The system of claim 25, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

29. (New) The system of claim 25, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

30. (New) A method, comprising:

A) receiving, by at least one media source, an audio/video feed of a live event;

B) providing a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source;

C) transmitting first instructions to a first client device that includes at least one first display to enable the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted in C) cause the first client device to:

connect to the first media server endpoint to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed; and

connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first device, first digital content corresponding to the first event information.

31. (New) The method of claim 30, wherein the first instructions transmitted in C) further cause the first client device to:

render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the audio/video feed received on the first communication channel; and

render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel.

32. (New) The method of claim 30, further comprising:

D) transmitting second instructions to a second client device that includes at least one second display to enable the at least one second display of the second client device to render the first event information relating to the live event, wherein the second instructions transmitted in D) cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information.

33. (New) The method of claim 32, wherein D) further comprises transmitting the second instructions to the second client device to enable the at least one second display of the second client device to render the first video relating to the live event and render the first event information relating to the live event, wherein the second instructions transmitted in D) cause the second client device to:

connect to the first media server endpoint to receive, on a fourth communication channel between the first media server endpoint and the second client device, the first copy of the audio/video feed.

34. (New) The method of claim 33, wherein:

the first instructions transmitted in C) further cause the first client device to:

render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the audio/video feed received on the first communication channel; and

render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel; and

the second instructions transmitted in D) further cause the second client device to:

render, on the at least one second display of the second client device, the first video relating to the live event based on the first copy of the audio/video feed received on the fourth communication channel; and

render, on the at least one second display of the second client device, at least some of the first event information based on the first digital content received on the third communication channel.

35. (New) The method of claim 33, further comprising:

E) receiving, by the at least one media source from the first client device, a composite outgoing stream of the audio/video feed and additional video content; and

F) providing a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source,

wherein D) further comprises transmitting the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

36. (New) The method of claim 35, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

A) comprises receiving, by the at least one RTMP media server, the audio/video feed of the live event and transmitting a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

B) comprises providing the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint of the at least one HLS server to the first client device.

37. (New) The method of claim 35, wherein:

the first instructions transmitted in C) further cause the first client device to:

render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the audio/video feed received on the first communication channel; and

render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel; and

the second instructions transmitted in D) further cause the second client device to:

render, on the at least one second display of the second client device, a second video relating to the live event based on the first copy of the composite outgoing stream on the fourth communication channel; and

render, on the at least one second display of the second client device, at least some of the first event information based on the first digital content received on the third communication channel.

38. (New) The method of claim 33, wherein the first instructions transmitted in C) cause the first client device to:

render, on a first portion of the at least one first display of the first client device, the first video relating to the first event based on the first copy of the audio/video feed received on the first communication channel; and

render, on a second portion of the at least one first display of the first client device, the at least some of the first event information based on the first digital content received on the second communication channel.

39. (New) The method of claim 38, wherein the first instructions transmitted in C) cause the first portion of the at least one first display of the first client device to be adjacent to the second portion of the at least one first display of the first client device.

40. (New) The method of claim 38, wherein the first instructions transmitted in C) cause the first portion and the second portion of the at least one first display of the first client device to be at least partially overlapping.

41. (New) The method of claim 38, wherein the first instructions transmitted in C) cause the second portion of the at least one first display of the first client device to include only at least one text element and/or at least one graphics element.

42. (New) The method of claim 38, wherein the first instructions transmitted in C) cause the second portion of the at least one first display of the first client device to include at least one interactive element.

43. (New) The method of claim 42, wherein the first instructions transmitted in C) cause the first client device, when a user of the first client device interacts with the at least one interactive element, to:

launch further graphics or animations;

receive additional information about the first event; and/or

navigate to an Internet location.

44. (New) The method of claim 42, wherein the first instructions transmitted in C) cause the first client device, when a user of the first client device interacts with the at least one interactive element, to navigate to an Internet location.

45. (New) The method of claim 42, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

46. (New) The method of claim 42, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

PTO/SB/06 (09-11)
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PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 17/833,188	Filing Date 06/06/2022	☐ To be Mailed

ENTITY: ☐ LARGE ☑ SMALL ☐ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $50 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $240 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	09/15/2023	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 45	Minus	** 20	= 25		x $40 =	1000
	Independent (37 CFR 1.16(h))	* 4	Minus	*** 3	= 1		x $192 =	192
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	1192

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	LIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/AMANDA N FORD/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**09/15/2023 02:51:56 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Marie Spakowski
PATENT CENTER #	62803850	AUTHORIZED BY	Joseph Teja
CUSTOMER #	149890	FILING DATE	06/06/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter AZUOLAS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1006	**E20239EE53329554**	**Marie Spakowski**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2202	EACH CLAIM IN EXCESS OF 20	40.00	25	1000.00
2201	EACH INDEPENDENT CLAIM IN EXCESS OF THREE	192.00	1	192.00
2253	EXTENSION FOR RESPONSE WITHIN THIRD MONTH -	592.00	1	592.00
			TOTAL AMOUNT:	**$1,784.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**09/15/2023 02:51:56 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

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PATENT CENTER #	62803850	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 3

DOCUMENT		PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02_RSP_OA_3-16-2023.pdf		18	-	302 KB
SGIC-002US02_RSP_OA_3-16-2023-A....pdf	(1-1)	1	Amendment/Request for Reconsideration-After Non-Final Rejection	106 KB
SGIC-002US02_RSP_OA_3-16-2023-CLM.pdf	(2-16)	15	Claims	219 KB
SGIC-	(17-18)	2	Applicant Arguments/Remarks	110 KB

002US02_RSP_OA_3-16-2023-REM.pdf	Made in an Amendment

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
SGIC-002US02_RSP_OA_3-16-2023.pdf	6B926F4B547AB1B8C2BD15889B23EAC26A594887FED14ED09720413543AEAFF1EC9A03DEC8E40838CD7B3F766B5F370905E1AF27A64A3E52A68AA46375876FDA
SGIC-002US02_RSP_OA_3-16-2023-A....pdf	7E450452129A3A2346F854D56DE91E60AC87E2137F597A924B92BAFCBB1B593222EE60E218548BD653DA3F0FA2718A324C93A3183DC25CFCB6C176FBC718ED2A
SGIC-002US02_RSP_OA_3-16-2023-CLM.pdf	EE71618EEBA3BF9AF93F5E254C4BA1A5D4EDE73213267FB7B88C1B9A77C14F8A673D46EBF1AE262C2C98B64B72858CA5E609E5815645D1F2EDBE60AC10AFB661
SGIC-002US02_RSP_OA_3-16-2023-REM.pdf	C6FD170332FB7CAB98D478CE2A2B02178A37F156446BEC45768438F0A75F915332469E58FA75C97A5FBBC8F738B0993C6EE3ED5E5C9EDEE131054D33B78507B3

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Attorney Docket No.: SGIC-002US02 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Peter AZUOLAS	Confirmation No.: 7083
Application No.: 17/833,188	Group Art Unit: 2458
Filed: 2022-06-06	Examiner: RAHMAN, SM AZIZUR

FOR: **SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS** (formerly SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS)

VIA EFS
Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

In response to the Office Action mailed March 16, 2023 in the above-identified application, Applicant submits the following amendments and remarks and respectfully requests reconsideration.

Amendments to the Title begin on page 2 of this paper.
Amendments to the Claims begin on page 3 of this paper.
Remarks begin on page 17 of this paper.

REMARKS

In response to the Office Action dated March 16, 2023, in the above-identified application, Applicant respectfully requests reconsideration. All of the issues raised in the Office Action have been carefully considered and are addressed in this response. The application as now presented is believed to be in allowable condition.

1. Status of the Claims and Summary of Amendments

Upon entry of this response, claims 2-46 will be pending in this application, of which claims 2, 9, 14 and 30 are independent claims. In this paper, claim 1 has been cancelled and claims 2-46 have been added. No new matter is added by these new claims.

2. Title of Application

Applicant respectfully requests that the title of the present application be amended as reflected on page 2 of this paper.

3. Claim Rejections

On page 3 of the Office Action, former claim 1 of the instant application was rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of prior U.S. Patent No. 11,856,742. Claim 1 is cancelled herein, and therefore this rejection should be withdrawn.

4. New Claims

New claims 2-46 are added to further define Applicant's contribution to the art. No new matter is added by these new claims.

CONCLUSION

It is respectfully believed that all of the rejections set forth in the Office Action have been addressed.

Applicant believes that the present application is now in condition for allowance. Favorable reconsideration of the application as amended is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 60-1876.

Respectfully submitted,

Dated: September 15, 2023

Smith Baluch LLP
376 Boylston St, Suite 401
Boston MA 02116

Phone: (617) 372-4547

By: /Joseph Teja, Jr./
Joseph Teja, Jr.
Registration No. 45,157

Doc Code: ECOMM.AUTH/ECOMM.WTDW
Doc Description: Internet Communications Authorization/Internet Communications Authorization Withdrawal

PTO/SB/439 (11-15)

AUTHORIZATION FOR INTERNET COMMUNICATIONS IN A PATENT APPLICATION OR REQUEST TO WITHDRAW AUTHORIZATION FOR INTERNET COMMUNICATIONS		
	Application No.	17/833,188
	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	2458
	Examiner Name	RAHMAN, SM AZIZUR
	Practitioner Docket No.	SGIC-002US02

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I. To authorize permission for Internet Communications.

☒ Recognizing that Internet communications are not secure, I hereby authorize the USPTO to communicate with the undersigned and practitioners in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via video conferencing, instant messaging, or electronic mail. I understand that a copy of these communications will be made of record in the application file. (MPEP 502.03)

II. To withdraw authorization for Internet Communications.

☐ The authorization given on _____, to the USPTO to communicate with the undersigned and any practitioner in accordance with 37 CFR 1.33 and 37 CFR 1.34 concerning any subject matter of this application via Internet communications such as video conferencing, instant messaging, or electronic mail is hereby withdrawn. I understand that the withdrawal is effective when approved rather than when received.

I am the

☐ applicant.

☐ attorney or agent of record. Registration number _____.

☒ attorney or agent acting under 37 CFR 1.34. Registration number 45157.

/Joseph Teja, Jr./ — Signature

October 27, 2023 — Date

Joseph Teja, Jr. — Typed or printed name

617-372-4547 — Telephone Number

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. Juristic entities must be represented by a patent practitioner (see 37 CFR 1.31, which is applicable to any paper filed on or after September 16, 2012, that is presented on behalf of a juristic entity, regardless of application filing date). Submit multiple forms if more than one signature is required, see below*.

☒ * Total of 1 forms are submitted.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**10/27/2023 05:34:38 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Marie Spakowski
PATENT CENTER #	63102060	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02 - Authorization for Internet Communications sb0439.pdf	2	Internet Communications Authorization	201 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
SGIC-002US02 - Authorization for Internet Communications	343E23FD8FC9F338A622C46120FFE6977DC36DB3AFA21C379EF1855F0C6B14C07638136BF92DB6D1593A13BB37C6DC61D5

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PA..
Document Description: Power of Attorney

PTO/AIA/82B (07-13)
Approved for use through 03/31/2021. OMB 0651-0035
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 149890

OR

☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

☒ The address associated with the above-mentioned Customer Number

OR

☐ The address associated with Customer Number: 149890

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

SportsCastr, Inc.

☐ Inventor or Joint Inventor (title not required below)

☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)

☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature	Be	Date (Optional)	
Name	Kevin April		
Title	CEO		

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

☐ Total of forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**11/02/2023 05:12:14 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Linda Doyle
PATENT CENTER #	63148341	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02_SB08-11-02-2023.pdf	4	Information Disclosure Statement (IDS) Form (SB08)	1252 KB
SportsCastr Inc. POA EXECUTED.pdf	1	Power of Attorney	2105 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

SGIC-002US02_SB08-11-02-2023.pdf	A40288B3BD586670A0ADBF96ABD500EC4ED87F23F0838F8A7C8F4D29B8794EC359A0F4ED18AB5A44DE3BA63BEFF0DEF621E16D861ED09907D7973D3FC23A348C
SportsCastr Inc. POA EXECUTED.pdf	8AFF30B37C468A3A8AD33B225A3D5ABEA2737427B433BEC8CC373940E662619C56467F99AEF607DEAA823E1FCAD3ED39ED584037AE1D2A27FB6F25DFCADA1572

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	10601914	B2	2020-03-24	Birrer et al.	Entire Document
	2	10855763	B2	2020-12-01	Birrer et al.	Entire Document
	3	11051049	B2	2021-06-29	Bustamante et al.	Entire Document
	4	11470361	B2	2022-10-11	Bustamante et al.	Entire Document
	5	11490132	B2	2022-11-01	Bustamante et al.	Entire Document
	6	11792444	B2	2023-10-17	Bustamante et al.	Entire Document

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17833188
	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SGIC-002US02

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	1							☐

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NON-PATENT LITERATURE DOCUMENTS Remove

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T[5]
	1		☐

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EXAMINER SIGNATURE

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99)**

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph Teja, Jr./	Date (YYYY-MM-DD)	2023-11-02
Name/Print	Joseph Teja Jr.	Registration Number	45157

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

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P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**11/02/2023 05:12:14 PM ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Linda Doyle
PATENT CENTER #	63148341	AUTHORIZED BY	Joseph Teja
CUSTOMER #	149890	FILING DATE	06/06/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter AZUOLAS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1006	**E2023A2H13378101**	**Marie Spakowski**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2806	SUBMISSION OF AN INFORMATION DISCLOSURE STATEMENT	104.00	1	104.00
			TOTAL AMOUNT:	**$104.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02

CONFIRMATION NO. 7083

149890
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

POA ACCEPTANCE LETTER

OC000000064265422

Date Mailed: 11/07/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 11/02/2023.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/agizaw/

UNITED STATES PATENT AND TRADEMARK OFFICE

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NOTICE OF ALLOWANCE AND FEE(S) DUE

149890 7590 11/08/2023

SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

EXAMINER	
RAHMAN, SM AZIZUR	
ART UNIT	PAPER NUMBER
2458	

DATE MAILED: 11/08/2023

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

TITLE OF INVENTION: SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/08/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
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P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

149890 7590 11/08/2023
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) 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 or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

TITLE OF INVENTION: SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/08/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAHMAN, SM AZIZUR	2458	709-231000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via Patent Center or EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

❑ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

❑ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

Genius Sports Ex. 1049
p. 823

UNITED STATES PATENT AND TRADEMARK OFFICE

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Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Notice of Allowability	Application No. 17/833,188	Applicant(s) AZUOLAS et al.	
	Examiner SM A RAHMAN	Art Unit 2458	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 09/15/2023.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 2-13 and 47-68 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 9/13/2023, 9/13/2023, 9/13/2023.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 10/27/2023.
5. ☑ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/SM A RAHMAN/
Primary Examiner, Art Unit 2458

Notice of Pre-AIA or AIA Status

The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Response to Communication

1. This office Action is in response to a communication received on September 15, 2023.

Claims 2-13 and 47-68 are pending in this application.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. Examiner had contacted applicant's representative and authorization for this examiner's amendment was given by the applicant's representative Joseph Teja, Jr. (Reg. No. 45,157), on 10/27/2023.

Amendment to the claims

The following amended claims will replace all prior versions and listings of claims in the application.

1. (Cancelled).

2. (Previously Pending) A system, comprising:

at least one media source to receive an audio/video feed of a live event and provide a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source; and

a webserver configured to:

transmit first instructions to a first client device that includes at least one first display, the first instructions transmitted by the webserver enabling the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted by the webserver cause the first client device to:

connect to the first media server endpoint of the at least one media source to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed of the live event;

connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first client device, first digital content corresponding to the first event information;

render, on the at least one first display of the first client device, at least some of the first event information as at least one first user-interactive feature overlaid on or adjacent to the first video relating to the live event; and

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least one first user-interactive feature; and

transmit second instructions to a second client device that includes at least one second display, the second instructions transmitted by the webserver enabling the at least one second display of the second client device to also render the first event information relating to the live event, wherein the second instructions transmitted by the webserver cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information so that the first digital content received at the first client device and the second client device is synchronized and client-by-client latency between the first client device and second client device to render the first event information is thereby mitigated or significantly reduced;

render, on the at least one second display of the second client device, at least some of the first event information as at least one second user-interactive feature; and

obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app when a second user selects at least a portion of the rendered at least one second user-interactive feature.

3. (Previously Pending) The system of claim 2, wherein:

the at least one media source is configured to:

receive the audio/video feed of the live event;

provide the first copy of the audio/video feed of the live event from the first media server endpoint;

receive from the first client device a composite outgoing stream of the audio/video feed and additional video content; and

provide a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source; and

the webserver is configured to transmit the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

4. (Previously Pending) The system of claim 3, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

the at least one RTMP media server is configured to receive the audio/video feed of the live event and transmit a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

the at least one HLS server is configured to provide the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint.

5. (Previously Pending) The system of claim 2, further comprising the socket server.

6. (Previously Pending) The system of claim 5, further comprising:

a control server, coupled to the socket server, to provide the first digital content corresponding to the first event information to the socket server.

7. (Previously Pending) The system of claim 2, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

8. (Previously Pending) The system of claim 2, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

9. (Previously Pending) A method, comprising:

A) receiving, by at least one media source, an audio/video feed of a live event;

B) providing a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source;

C) transmitting first instructions to a first client device that includes at least one first display to enable the at least one first display of the first client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted in C) cause the first client device to:

connect to the first media server endpoint of the at least one media source to receive, on a first communication channel between the first media server endpoint and the first client device, the first copy of the audio/video feed of the live event;

connect to a first socket of a socket server to receive, on a second communication channel between the first socket and the first client device, first digital content corresponding to the first event information;

render, on the at least one first display of the first client device, at least some of the first event information as at least one first user-interactive feature overlaid on or adjacent to the first video relating to the live event; and

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least one first user-interactive feature; and

D) transmitting second instructions to a second client device that includes at least one second display to enable the at least one second display of the second client device to render the first event information relating to the live event, wherein the second instructions transmitted in D) cause the second client device to:

connect to the first socket of the socket server to receive, on a third communication channel between the first socket and the second client device, the first digital content corresponding to the first event information so that the first digital content received at the first client device and the second client device is synchronized and client-by-client latency between the first client device and second client device to render the first event information is thereby mitigated or significantly reduced;

render, on the at least one second display of the second client device, at least some of the first event information as at least one second user-interactive feature; and

obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app related to the live event when a second user selects at least a portion of the rendered at least one second user-interactive feature.

10. (Previously Pending) The method of claim 9, further comprising:

E) receiving, by the at least one media source from the first client device, a composite outgoing stream of the audio/video feed and additional video content; and

F) providing a first copy of the composite outgoing stream of the audio/video feed and the additional video content from a second media server endpoint of the at least one media source,

wherein D) further comprises transmitting the second instructions to the second client device to cause the second client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the second client device, the first copy of the composite outgoing stream.

11. (Previously Pending) The method of claim 10, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

the first media server endpoint is coupled to the at least one HLS server;

A) comprises receiving, by the at least one RTMP media server, the audio/video feed of the live event and transmitting a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

B) comprises providing the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint of the at least one HLS server to the first client device.

12. (Previously Pending) The method of claim 9, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

13. (Previously Pending) The method of claim 9, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

14. – 46. (Cancelled).

47. (New) A method, comprising:

A) receiving, by at least one media source, an audio/video feed of a live event;

B) providing a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source to a first client device;

C) receiving, by the at least one media source from the first client device, a composite outgoing stream of the audio/video feed and additional video content;

D) providing a first copy of the composite outgoing stream of the audio/video feed and additional video content from a second media server endpoint of the at least one media source; and

E) transmitting first instructions to a second client device that includes at least one first display to cause the at least one first display of the second client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted in E) cause the second client device to:

connect to the second media server endpoint of the at least one media source to receive, on a first communication channel, the first copy of the composite outgoing stream;

render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the composite outgoing stream;

connect to a socket of a socket server to receive, on a second communication channel different from the first communication channel, first digital content corresponding to the first event information; and

render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel.

48. (New) The method of claim 47, wherein:

the at least one media source comprises at least one RTMP media server and at least one HLS server;

A) comprises receiving, by the at least one RTMP media server, the audio/video feed of the live event and transmitting a first HLS copy of the audio/video feed of the live event from the at least one RTMP media server to the at least one HLS server; and

B) comprises providing the first copy of the audio/video feed of the live event as another HLS copy from the first media server endpoint of the at least one HLS server to the first client device.

49. (New) The method of claim 47, wherein the first instructions transmitted in E) cause the second client device to:

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least some of the first event information.

50. (New) The method of claim 49, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

51. (New) The method of claim 49, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

52. (New) The method of claim 47, further comprising:

F) transmitting second instructions to a third client device that includes at least one second display to enable the at least one second display of the second client device to render the first event information relating to the live event, wherein the second instructions transmitted in F) cause the third client device to:

connect to the socket of the socket server to receive, on a third communication channel between the socket and the third client device, the first digital content corresponding to the first event information.

53. (New) The method of claim 52, wherein F) further comprises transmitting the second instructions to the third client device to enable the at least one second display of the third client device to render the first

video relating to the live event and render the first event information relating to the live event, wherein the second instructions transmitted in F) cause the third client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the second media server endpoint and the third client device, the first copy of the composite outgoing stream.

54. (New) The method of claim 53, wherein:

the second instructions transmitted in F) further cause the third client device to:

render, on the at least one second display of the third client device, the first video relating to the live event based on the first copy of the composite outgoing stream received on the fourth communication channel; and

render, on the at least one second display of the third client device, at least some of the first event information based on the first digital content received on the third communication channel.

55. (New) The method of claim 54, wherein:

the first instructions transmitted in E) cause the second client device to obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least some of the first event information; and

the second instructions transmitted in F) cause the third client device to obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app related to the live event when a second user selects at least a portion of the rendered at least some of the first event information.

56. (New) The method of claim 55, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

57. (New) The method of claim 55, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

58. (New) A system, comprising:

at least one media source to:

receive an audio/video feed of a live event;

provide a first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source to a first client device;

receive from the first client device a composite outgoing stream of the audio/video feed and additional video content; and

provide a first copy of the composite outgoing stream of the audio/video feed and additional video content from a second media server endpoint of the at least one media source; and

a webserver to transmit first instructions to a second client device that includes at least one first display to cause the at least one first display of the second client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted by the webserver cause the second client device to:

connect to the second media server endpoint of the at least one media source to receive, on a first communication channel, the first copy of the composite outgoing stream;

render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the composite outgoing stream;

connect to a socket of a socket server to receive, on a second communication channel different from the first communication channel, first digital content corresponding to the first event information; and

render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel.

59. (New) The system of claim 58, wherein the first instructions transmitted by the webserver cause the second client device to:

obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least some of the first event information.

60. (New) The system of claim 58, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

61. (New) The system of claim 58, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

62. (New) The system of claim 58, further comprising the socket server.

63. (New) The system of claim 62, further comprising:

a control server, coupled to the socket server, to provide the first digital content corresponding to the first event information to the socket server.

64. (New) The system of claim 58, wherein the webserver is configured to transmit second instructions to a third client device that includes at least one second display to enable the at least one second display of the third client device to render the first event information relating to the live event, wherein the second instructions transmitted by the webserver cause the third client device to:

connect to the socket of the socket server to receive, on a third communication channel between the socket and the third client device, the first digital content corresponding to the first event information.

65. (New) The system of claim 64, wherein the webserver is configured to transmit the second instructions to the third client device to further enable the at least one second display of the third client device

to render the first video relating to the live event and render the first event information relating to the live event, wherein the second instructions transmitted by the webserver cause the third client device to:

connect to the second media server endpoint to receive, on a fourth communication channel between the first media server endpoint and the third client device, the first copy of the composite outgoing stream.

66. (New) The system of claim 65, wherein:

the first instructions transmitted by the webserver cause the second client device to obtain access to first additional information relating to the live event and/or redirect to a first web site or first app when a first user selects at least a portion of the rendered at least some of the first event information; and

the second instructions transmitted by the webserver cause the third client device to obtain access to the first additional information or second additional information relating to the live event and/or redirect to the first web site, the first app, a second web site or a second app related to the live event when a second user selects at least a portion of the rendered at least some of the first event information.

67. (New) The system of claim 64, wherein:

the live event is a sporting or gaming event; and

the first event information is online gaming information.

68. (New) The system of claim 64, wherein:

the live event is a sporting or gaming event; and

the first event information is score information.

Reasons for allowance

3. The following is an Examiner's statement of reasons for allowance:

This application is a continuation application of U.S. non-provisional application serial no. 16/685,782, filed November 15, 2019, entitled "Systems, Apparatus, and Methods for Scalable Low-Latency

Viewing of Integrated Broadcast Commentary and Event Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels," which claims a priority benefit, as a bypass continuation application, to PCT Application No. PCTUS2018033016, filed May 16, 2018, entitled "Systems, Apparatus, and Methods for Scalable Low-Latency Viewing of Integrated Broadcast Commentary and Event Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels," which PCT application in turn claims a priority benefit to U.S. provisional application serial no. 62/627,859, filed February 8, 2018, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels;" U.S. provisional application serial no. 62/542,729, filed August 8, 2017, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels;" and U.S. provisional application serial no. 62/507,158, filed May 16, 2017, entitled "Systems, Apparatus, and Methods for Scalable Low-latency Viewing of Integrated Broadcast Commentary and Even Video Streams of Live Events, and Synchronization of Event Information with Viewed Streams via Multiple Internet Channels." Each of the foregoing applications is incorporated by reference herein in its entirety.

A completed search of available patent literature and non-patent literature was conducted by the examiner. The Applicant's replies make evident the reasons for allowance, satisfying the "record as a whole" proviso of the rule 37 CFR 1.104(e). The grounds of claim rejection were reconsidered and claim rejections were withdrawn based on the substance of applicant's amendments, remarks and arguments (see remarks, filed September 15, 2023, pp. 17-18) and examiner's amendment, as such the reasons for allowance are in all probability evident from the record and no statement is deemed necessary (see MPEP 1302.14). Therefore, the claims are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submission should be clearly labeled "Comments on Statement of Reasons for Allowance."

Allowable Subject Matter

4. Claims 2-13 and 47-68 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SM AZIZUR RAHMAN whose telephone number is (571)270-7360. The examiner can normally be reached on M, F - Telework; T-Th - On Campus.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Bates can be reached on 571-272-3980. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/SM A RAHMAN/
Primary Examiner, Art Unit 2458

Examiner-Initiated Interview Summary	**Application No.** 17/833,188	**Applicant(s)** AZUOLAS et al.		
	Examiner SM A RAHMAN	**Art Unit** 2458	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
SM A RAHMAN	Primary Examiner	Telephonic
Joseph Teja Jr.	Attorney	

Date of Interview: 27 October 2023

Issues Discussed:

Proposed Amendment(s)

Examiner had reached out to applicant's representative to discuss claim limitation and proposed an examiner's amendment. Agreement was reached.

/SM A RAHMAN/ Primary Examiner, Art Unit 2458	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Notice of References Cited	Application/Control No. 17/833,188	Applicant(s)/Patent Under Reexamination AZUOLAS et al.	
	Examiner SM A RAHMAN	Art Unit 2458	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20100274848-A1	10-2010	Altmaier; Joseph	H04L67/14	709/228
*	B	US-20180307383-A1	10-2018	Faulkner; Jason Thomas	H04N7/155	1/1
	C					
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FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	**Art Unit**
	SM A RAHMAN	2458

CPC						
Symbol					**Type**	**Version**
H04N	/	21	/	6437	F	2013-01-01
H04N	/	21	/	2187	I	2013-01-01
H04N	/	21	/	23106	I	2013-01-01
H04N	/	21	/	23439	I	2013-01-01
H04N	/	21	/	2368	I	2013-01-01
H04L	/	65	/	65	I	2022-05-01
H04L	/	65	/	764	I	2022-05-01

CPC Combination Sets							
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	34	
/SM A RAHMAN/ Primary Examiner, Art Unit 2458	30 October 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 6

U.S. Patent and Trademark Office — Part of Paper No.: 20231030

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	**Art Unit**
	SM A RAHMAN	2458

INTERNATIONAL CLASSIFICATION				
CLAIMED				
H04N21/6437	/	21	/	6437
H04N21/2187	/	21	/	2187
H04N21/231	/	21	/	231
H04L65/75	/	65	/	75

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**
709	231

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	34	
/SM A RAHMAN/ Primary Examiner, Art Unit 2458	30 October 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 6

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Part of Paper No.: 20231030

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p. 844

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	**Art Unit**
	SM A RAHMAN	2458

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	2	10	11	19	53	28	62								
2	3	11	12	20	54	29	63								
3	4	12	13	21	55	30	64								
4	5	13	47	22	56	31	65								
5	6	14	48	23	57	32	66								
6	7	15	49	24	58	33	67								
7	8	16	50	25	59	34	68								
8	9	17	51	26	60										
9	10	18	52	27	61										

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	34	
/SM A RAHMAN/ Primary Examiner, Art Unit 2458	30 October 2023	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	Fig. 6

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	**Art Unit**
	SM A RAHMAN	2458

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	03/10/2023	10/30/2023							
	1	✓	-							
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34	68		=							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/833,188	AZUOLAS et al.
	Examiner	Art Unit
	SM A RAHMAN	2458

CPC - Searched*		
Symbol	Date	Examiner
(H04N21/6437 OR H04L65/65 OR H04L65/764 OR H04N21/2187 OR H04N21/23106 OR H04N21/23439 OR H04N21/2368).cpc.	03/10/2023	SM Rahman

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

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Search Notes		
Search Notes	Date	Examiner
PE2E Search, Google Patent Search, and ip.com Search	03/10/2023	SM Rahman
Double Patenting Search, Assignee Search, and Inventor Search	03/10/2023	SM Rahman
PE2E Search, Google Patent Search, and ip.com Search	10/30/2023	SM Rahman

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	Published and Unpublished Documents Search. Please see the 'Search History'.	10/30/2023	SM Rahman

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

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	Filing Date	2022-06-06
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	Examiner Name	
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	38	Sportradar NFL V7 US API Portal, February 7, 2023, 5 pages	☐
	39	Sportradar Sports Data API December 23, 2022, accessed at https://sportradar.com/sports-entertainment/content/sports-data-api/?lang=en-us on February 16, 2023, 3 pages	☐
	40	Sportradar Streams Live Data for Australian Open Broadcasts on Aspera, Digital Media World, accessed at WayBack Machines https://www.digitalmediaworld.tv/disrupt/2375-sportradar-streams-live-data-for-australian-open-broadcases-on-aspera on May 16, 2021, (2019) 3 pages	☐
	41	Sportradar Supercharge Your OTT Solution with the Power of Data, accessed at Wayback Machine https://sportradar.us/sports-media/OTT on May 13, 2020, 3 pages	☐
	42	Sportradar U.S. SEC Amendment No. 2 to Registration Statement, filed September 7, 2021, Registration No. 333-258882 accessed at SEC Home » Search the Next-Generation EDGAR System»CompanySearch» on February 16, 2023, 336 pages	☐
	43	Streaming, Grab Attention With Video, Genius Sports Website, 2022, accessed April 13, 2023, 4 pages	☐
	44	Styling Genius Live Player, GeniusSports Drop & Play Integration Guide, November 28, 2022, 2 pages	☐

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.A.R/

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17833188
	Filing Date	2022-06-06
	First Named Inventor	Peter AZUOLAS
	Art Unit	
	Examiner Name	
	Attorney Docket Number	SGIC-002US02

	45	Understanding Match State, GeniusSports Wiki, March 24, 2023, 2 pages	☐
	46	Video Integration and Player User Guide February 25, 2021, Genius Sports Wiki Website, 1 page	☐
	47	Video Streaming API, GeniusSports Wiki Website, March 24, 2021, 1 page	☐
	48	Video Streaming Genius Sports Wiki Website, March 26, 2021, 1 page	☐
	49	Video-Streaming-v1, Swagger, April, 2019, 3 pages	☐
	50	Video-v2, Swagger, April, 2019, 4 pages	☐

If you wish to add additional non-patent literature document citation information please click the Add button Add

EXAMINER SIGNATURE

Examiner Signature	/SM A RAHMAN/	Date Considered	10/30/2023

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jonathan K. Tong/	Date (YYYY-MM-DD)	2023-09-13
Name/Print	Jonathan K. Tong	Registration Number	77374

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.A.R/

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	121284	(H04N21/6437 OR H04L65/65 OR H04L65/764 OR H04N21/2187 OR H04N21/23106 OR H04N21/23439 OR H04N21/2368).cpc.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/03/10 03:53 PM
L2	94	("10226698" OR "11451883" OR "20040177002" OR "20070043632" OR "20100070345" OR "20120058808" OR "20120295686" OR "20130225285" OR "20150131845" OR "20160086108" OR "20170264961" OR "20180025586" OR "20200111325" OR "20210397847" OR "20220254379" OR "20220327830" OR "20220335720" OR "5251294" OR "5999908" OR "6529146" OR "6701383" OR "6834371" OR "6839059" OR "6922702" OR "7133834" OR "7729940" OR "8000993" OR "8002618" OR "8112301" OR "8149530" OR "8376855" OR "8738694" OR "8813112" OR "8870639" OR "9511287" OR "9716918" OR "9919210" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 04:00 PM

		"10425697" OR "10484743" OR "10721543" OR "10740305" OR "10805687" OR "10848792" OR "11039218" OR "11356742" OR "20010001160" OR "20010039209" OR "20040003101" OR "20080022347" OR "20080062318" OR "20080168493" OR "20090222754" OR "20100299703" OR "20110083144" OR "20110086144" OR "20110090960" OR "20110280540" OR "20120069131" OR "20120072845" OR "20120210348" OR "20130222597" OR "20130227596" OR "20130297706" OR "20140129680" OR "20140359075" OR "20150163562" OR "20160037215" OR "20160249108" OR "20160360261" OR "20170034237" OR "20170099516" OR "20170188054" OR "20200162796" OR "20210168462" OR "6434621" OR "8128503" OR "8341662" OR "8549574" OR "8595186" OR "8874778" OR "9055271" OR "9106934" OR "9149682" OR "9251852" OR "9288278" OR "9509793" OR "9516390" OR "9584858" OR "9591054" OR "9641566" OR "9654844" OR "9692800" OR "9706443" OR "9878243").pn.					
L3	2	(1 2) AND ((live	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10

		real$1time) WITH broadcast$3 SAME (combin$3 integrat$3) WITH broadcast SAME commentary SAME sport$3 WITH event$1)					05:16 PM
L4	10	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 05:55 PM
L5	0	@ad<"20170516" AND (broadcast$3 WITH sport$3 SAME event$1 AND (integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 05:56 PM
L6	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME periodically WITH (retrieve receive) WITH (copy copies))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:12 PM
L7	0	@ad<"20170516" AND (1 2) AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME periodically WITH (retrieve receive) WITH media WITH (copy copies))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM
L8	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM

		media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency.)					
L9	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:16 PM
L10	0	@ad<"20170516" AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency latency))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:17 PM
L11	0	@ad<"20170516" AND (1 2) AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency latency))	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 06:17 PM
L12	1	@ad<"20170516" AND (first WITH video WITH broadcast$3 SAME stream WITH contain$3 WITH digital WITH reference SAME information WITH channel)	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 07:03 PM
L13	1	((("SPORTSCASTR") near3 ("INC"))).AS,AANM.	(USPAT)	OR	ON	ON	2023/03/10 07:04 PM
L14	15	((("AZUOLAS") near3 ("Peter")) OR (("APRIL") near3 ("Kevin")) OR (("SILSTON") near3 ("Brian")) OR (("SCHUPAK") near3 ("Philip"))).INV.	(US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT)	OR	ON	ON	2023/03/10 07:04 PM

L15	0	(13 AND 14) AND (((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH latency)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/03/10 07:06 PM
L16	2	"11356742".pn.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/03/10 07:59 PM
L17	2	@ad<"20170516" AND (receiv$3 SAME (live real$1time) SAME (audio video) WITH content AND (send$3 transmit$4) SAME (user client) SAME device AND render$3 WITH (event video audio) SAME (multiple plurality) WITH socket$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/29 08:35 PM
L18	277	@ad<"20170516" AND (stream$3 SAME (live real$1time) SAME (audio video) AND client WITH device SAME render$3 SAME display SAME content AND event WITH information)	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 01:50 PM
L19	0	18 AND (connect$3 SAME communication WITH channel SAME composite SAME stream)	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 01:55 PM
L20	36	("10015224" OR "10105596" OR "10116989" OR "10129310" OR	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:11 PM

		"10243694" OR "10313412" OR "10326814" OR "10327040" OR "10397291" OR "10437551" OR "10484730" OR "10554324" OR "10630746" OR "10681398" OR "10715860" OR "10735783" OR "10742699" OR "10970904" OR "11039102" OR "11076111" OR "11076188" OR "11146834" OR "11153581" OR "11157233" OR "11178447" OR "11425178" OR "11425219" OR "11445246" OR "11457245" OR "11533543" OR "11658822" OR "20200021892" OR "20200098228" OR "8214429" OR "8858313" OR "9954646").pn.					
L21	1	20 AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1)	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:12 PM
L22	0	@ad<"20170516" AND 21	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:12 PM
L23	0	(connect$3 SAME communication WITH channel SAME composite SAME stream) AND ((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:13 PM

		latency))					

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	0	(((integrat$3 combin$3) WITH (live real$1time) WITH broadcast$3 AND (audio video) WITH media SAME (multiple plurality) WITH (internet online) WITH channel$1 SAME low WITH (bandwidth frequency latency))).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:14 PM
N2	0	((stream$3 SAME (live real$1time) SAME (audio video) AND client WITH device SAME render$3 SAME display SAME content AND event WITH information) AND (connect$3 SAME communication WITH channel SAME composite SAME stream)).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2023/10/30 08:14 PM

Web Search History

date, time	web site	search string
10/29/2023 8:56:56 PM	Google Patents	Search Term 1 (receive real-time live event and transmit forward client device and rendering audio video content web server via multiple socket)
10/30/2023 1:57:38 PM	Google Patents	Search Term 1 (streaming live real time audio video and client device rendering display content event information multiple communication channels)
10/30/2023 2:02:39 PM	Google Patents	Search Term 1 (connecting multiple communication channels rendered media content relating to socket server receive content separate channel)

Bibliographic Data

Application No: 17/833,188

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /SM A RAHMAN/ /S.A.R./

Examiner's Signature | Initials

Title: SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
06/06/2022	709	2458	SGIC-002US02
RULE			

APPLICANTS

SportsCastr, Inc., Las Vegas, NV,

INVENTORS

Peter AZUOLAS, Las Vegas, NV, UNITED STATES

Kevin APRIL, Kenilworth, IL, UNITED STATES

Brian SILSTON, New York, NY, UNITED STATES

Philip Nicholas SCHUPAK, Brooklyn, NY, UNITED STATES

CONTINUING DATA

This application is a CON of 16685782 11/15/2019 PAT 11356742

16685782 is a CON of PCT/US2018/033016 05/16/2018

PCT/US2018/033016 has PRO of 62627859 02/08/2018

PCT/US2018/033016 has PRO of 62542729 08/08/2017

PCT/US2018/033016 has PRO of 62507158 05/16/2017

FOREIGN APPLICATIONS

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376 BOYLSTON ST
STE 401
BOSTON, MA 02116
UNITED STATES

FILING FEE RECEIVED

$2,160

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

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Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

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Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
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	Examiner Name	
	Attorney Docket Number	SGIC-002US02

	1	Virtuals, GeniusSports Drop & Play Integration Guide, November 28, 2022, 1 page	☐
	2	WALLSTREET, John, Genius Sports-Caesars NFL Betting Live Stream Validates Vision, December 21, 2022, Sportico, 4 pages	☐
	3	Warehouse - Read Stream API Documentation -American Football!, GeniusSports Developer Centre Website, May 12, 2021, 14 pages	☐
	4	Warehouse - Read Stream API Documentation -Basketball, GeniusSports Developer Centre Website, July 30, 2017, 27 pages	☐

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EXAMINER SIGNATURE

Examiner Signature	/SM A RAHMAN/	Date Considered	10/30/2023

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jonathan K. Tong/	Date (YYYY-MM-DD)	2023-09-13
Name/Print	Jonathan K. Tong	Registration Number	77374

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(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

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	1	10015224	B1	2018-07-03	Shen et al.	Entire Document
	2	10105596	B1	2018-10-23	Mann	Entire Document
	3	10116989	B1	2018-10-30	Shen et al.	Entire Document
	4	10129310	B1	2018-11-13	Brunning	Entire Document
	5	10243694	B1	2019-03-26	Marcin et al.	Entire Document
	6	10313412	B1	2019-06-04	Hall et al.	Entire Document
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	9	10397291	B1	2019-08-27	Hall et al.	Entire Document
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	11	10484730	B1	2019-11-19	Li et al.	Entire Document
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	1	56 Bit Sportradar Case Study, Sportradar Time System 2022 accessed at https://www.56bit.com/case-studies/sportradar-time-system on February 16, 2023, 5 pages	☐
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	11	Betradar Audio-Visual Brochure 2022, 8 pages	☐
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Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

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☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Jonathan K. Tong/	Date (YYYY-MM-DD)	2023-09-13
Name/Print	Jonathan K. Tong	Registration Number	77374

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1	2023-10-30 00:37 UTC	24,377,729	3
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4	2023-10-30 18:02 UTC	39,915,703	4

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1 **2023-10-30 00:37 UTC | 24,377,729 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text

A method, comprising: A) receiving, by at least one media source, an audio/video feed of a live event; B) providing a

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p. 883

first copy of the audio/video feed of the live event from a first media server endpoint of the at least one media source to a first client device; C) receiving, by the at least one media source from the first client device, a composite outgoing stream of the audio/video feed and additional video content; D) providing a first copy of the composite outgoing stream of the audio/video feed and additional video content from a second media server endpoint of the at least one media source; and E) transmitting first instructions to a second client device that includes at least one first display to cause the at least one first display of the second client device to render a first video relating to the live event and render first event information relating to the live event, wherein the first instructions transmitted in E) cause the second client device to: connect to the second media server endpoint of the at least one media source to receive, on a first communication channel, the first copy of the composite outgoing stream; render, on the at least one first display of the first client device, the first video relating to the live event based on the first copy of the composite outgoing stream; connect to a socket of a socket server to receive, on a second communication channel different from the first communication channel, first digital content corresponding to the first event information; and render, on the at least one first display of the first client device, at least some of the first event information based on the first digital content received on the second communication channel.

Concept Modifiers: None

Filters: None

2 **2023-10-30 00:55 UTC | 17,705,407 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
receive real-time or live event and transmit or forward to client device and rendering the audio video content before transferring to web server via multiple socket

Concept Modifiers: None

Filters: None

3 **2023-10-30 17:58 UTC | 17,201,604 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
live streaming real time audio video and client device rendering display content with event information using multiple communication channels

Concept Modifiers: None

Filters: None

4 **2023-10-30 18:02 UTC | 39,915,703 results from**

De-Dup: None | **Relevance Cut-off:** None | **Sort:** Relevance

Main Concept: Text
connecting multiple communication channels with rendered media content from user devices and relating to a socket server to receive content to a separate channel

Concept Modifiers: None

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Filters: None

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
17/833,188	06/06/2022	2458	2088	SGIC-002US02	1	1

CONFIRMATION NO. 7083

REPLACEMENT FILING RECEIPT

149890
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

OC0000006459614S

Date Mailed: 11/16/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Peter AZUOLAS, Las Vegas, NV;
Kevin APRIL, Kenilworth, IL;
Brian SILSTON, New York, NY;
Philip Nicholas SCHUPAK, Brooklyn, NY;

Applicant(s)

SportsCastr, Inc., Las Vegas, NV;

Assignment For Published Patent Application

SportsCastr, Inc., Las Vegas, NV

Power of Attorney: The patent practitioners associated with Customer Number 149890

Domestic Priority data as claimed by applicant

This application is a CON of 16/685,782 11/15/2019 PAT 11,356,742
which is a CON of PCT/US2018/033016 05/16/2018
which claims benefit of 62/627,859 02/08/2018
and claims benefit of 62/542,729 08/08/2017
and claims benefit of 62/507,158 05/16/2017

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 06/13/2022

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 17/833,188**

Projected Publication Date: 04/27/2023

Non-Publication Request: No

Early Publication Request: No
**** SMALL ENTITY ****
Title

SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

Preliminary Class

709

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

149890 7590 11/24/2023

SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

EXAMINER	
RAHMAN, SM AZIZUR	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
11/24/2023	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docketing@smithbaluch.com
eofficeaction@appcoll.com
smith@smithbaluch.com

Corrected ***Notice of Allowability***	**Application No.** 17/833,188	**Applicant(s)** AZUOLAS et al.	
	Examiner SM A RAHMAN	**Art Unit** 2458	**AIA (FITF) Status** Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to 11/16/2023.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 2-13 and 47-68 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/02/2023.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.
5. ☐ Examiner's Amendment/Comment
6. ☐ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/SM A RAHMAN/
Primary Examiner, Art Unit 2458

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

U.S.PATENTS Remove

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
/S.A.R/	1	10601914	B2	2020-03-24	Birrer et al.	Entire Document
/S.A.R/	2	10855763	B2	2020-12-01	Birrer et al.	Entire Document
/S.A.R/	3	11051049	B2	2021-06-29	Bustamante et al.	Entire Document
/S.A.R/	4	11470361	B2	2022-10-11	Bustamante et al.	Entire Document
/S.A.R/	5	11490132	B2	2022-11-01	Bustamante et al.	Entire Document
/S.A.R/	6	11792444	B2	2023-10-17	Bustamante et al.	Entire Document

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99)**

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

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	1		☐

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EXAMINER SIGNATURE

Examiner Signature	/SM A RAHMAN/	Date Considered	11/17/2023

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(**Not for submission under 37 CFR 1.99)**

Application Number	17833188
Filing Date	2022-06-06
First Named Inventor	Peter AZUOLAS
Art Unit	
Examiner Name	
Attorney Docket Number	SGIC-002US02

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Joseph Teja, Jr./	Date (YYYY-MM-DD)	2023-11-02
Name/Print	Joseph Teja Jr.	Registration Number	45157

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**11/27/2023 03:30:08 PM Z ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	7083	FILED BY	Marie Spakowski
PATENT CENTER #	63384924	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02 Issue Fee Transmittal.pdf	1	Issue Fee Payment (PTO-85B)	182 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
SGIC-002US02 Issue Fee Transmittal.pdf	954F7F9B2ACF1C9D2B8476B7643E4D56639871872D8FBF33E C9D32A001172BFA4385C29948055EC684258F2548A2401ACE3 4202CEA9B89B0C838986D358C3253

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**11/27/2023 03:30:08 PM Z ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

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CUSTOMER #	149890	FILING DATE	06/06/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter AZUOLAS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1006	**E2023AQF31138701**	**Marie Spakowski**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2501	UTILITY ISSUE FEE	480.00	1	480.00
			TOTAL AMOUNT:	**$480.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

149890 7590 11/08/2023
SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) 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 or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

TITLE OF INVENTION: SYSTEMS, APPARATUS, AND METHODS FOR SCALABLE LOW-LATENCY VIEWING OF INTEGRATED BROADCAST COMMENTARY AND EVENT VIDEO STREAMS OF LIVE EVENTS, AND SYNCHRONIZATION OF EVENT INFORMATION WITH VIEWED STREAMS VIA MULTIPLE INTERNET CHANNELS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	$480	$0.00	$0.00	$480	02/08/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
RAHMAN, SM AZIZUR	2458	709-231000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Smith Baluch LLP
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: SportsCastr, Inc.
(B) RESIDENCE: (CITY and STATE OR COUNTRY): Las Vegas, NV

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via Patent Center or EFS-Web ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Joseph Teja, Jr./ Date November 27, 2023

Typed or printed name Joseph Teja, Jr. Registration No. 45,157

Genius Sports Ex. 1049
p. 900

UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	01/09/2024	11871088	SGIC-002US02	7083

149890 7590 12/20/2023

SMITH BALUCH LLP
376 BOYLSTON ST
STE 401
BOSTON, MA 02116

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (https://patentcenter.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Peter AZUOLAS, Las Vegas, NV;
Kevin APRIL, Kenilworth, IL;
Brian SILSTON, New York, NY;
Philip Nicholas SCHUPAK, Brooklyn, NY;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

SportsCastr, Inc., Las Vegas, NV;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

Attorney Docket No. SGIC-002US02 **PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Inventor:	Peter AZUOLAS	Confirmation No.:	7083
Application No.:	17/833,188	Group Art Unit:	
Filed:	2022-06-06	Examiner:	

For: SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

VIA EFS
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION

Applicant respectfully requests a Certificate of Correction under 37 C.F.R. 1.323 in U.S. Patent No. 11,871,088. The face of this patent should be corrected as follows:

- At INID Code (45), *Date of Patent:*, replace "Jan. 9, 2024" with -- *Jan. 9, 2024 –
- Add INID Code (*). At INID Code (*), add -- Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. This patent is subject to a terminal disclaimer. --

Applicant submitted terminal disclaimers in the present application after the date of payment of the issue fee but prior to the patent grant date. As required, Applicant submits herewith a Certificate of Correction, requesting that the face of the patent be amended to state that the patent is subject to a terminal disclaimer, and the requisite fee under 37 C.F.R. 1.20(a). The correction would not constitute new matter or require reexamination.

Respectfully submitted,

Dated: January 8, 2024

SMITH BALUCH LLP

Smith Baluch LLP
ATTN: Patent Group
376 Boylston St., Suite 401
Boston, MA 02116

Tel:

By: /Joseph Teja, Jr./
Joseph Teja Jr.
Reg. No.45157

PTO/AIA/26 (04-14)
Approved for use through 05/31/2024. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) SGIC-002US02

In re Application of: Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

Application No.: 17/833,188

Filed: 2022-06-06

For: SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

The applicant, SportsCastr, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 10805687 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 45157

/Joseph Teja, Jr./ — Signature
2024-01-08 — Date

Joseph Teja Jr. — Typed or printed name

Partner — Title
617-372-4547 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0031. Public burden for this form is estimated to average 12 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **If filing this completed form by mail, send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

PTO/AIA/26 (04-14)
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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT

Docket Number (Optional): SGIC-002US02

In re Application of: Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

Application No.: 17/833,188

Filed: 2022-06-06

For: SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

The applicant, SportsCastr, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 11770591 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 45157

/Joseph Teja, Jr./ — Signature
2024-01-08 — Date

Joseph Teja Jr. — Typed or printed name

Partner — Title
617-372-4547 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT

Docket Number (Optional): SGIC-002US02

In re Application of: Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

Application No.: 17/833,188

Filed: 2022-06-06

For: SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

The applicant, SportsCastr, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of **prior patent** No. 11039218 as the term of said **prior patent** is presently shortened by any terminal disclaimer. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and the **prior patent** are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the applicant does not disclaim the terminal part of the term of any patent granted on the instant application that would extend to the expiration date of the full statutory term of the **prior patent**, "as the term of said **prior patent** is presently shortened by any terminal disclaimer," in the event that said **prior patent** later:

expires for failure to pay a maintenance fee;
is held unenforceable;
is found invalid by a court of competent jurisdiction;
is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321;
has all claims canceled by a reexamination certificate;
is reissued; or
is in any manner terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer.

Check either box 1 or 2 below, if appropriate.

1. ☐ The undersigned is the applicant. If the applicant is an assignee, the undersigned is authorized to act on behalf of the assignee.

I hereby acknowledge that any willful false statements made are punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 45157

/Joseph Teja, Jr./ — Signature
2024-01-08 — Date

Joseph Teja Jr. — Typed or printed name

Partner — Title
617-372-4547 — Telephone Number

☑ Terminal disclaimer fee under 37 CFR 1.20(d) included.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	01/08/2024 06:25:10 PM Z ET	SGIC-002US02

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	11871088
CONFIRMATION #	7083	FILED BY	Marie Spakowski
PATENT CENTER #	63879056	AUTHORIZED BY	Joseph Teja
CUSTOMER #	149890	FILING DATE	06/06/2022
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Peter AZUOLAS

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 1006	E202418I26087059	Marie Spakowski

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2811	CERTIFICATE OF CORRECTION	160.00	1	160.00
2814	STATUTORY DISCLAIMER, INCLUDING TERMINAL DISCLAIMER	170.00	5	850.00
			TOTAL AMOUNT:	$1,010.00

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d)

and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/44 (09-07)
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(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 11,871,088

APPLICATION NO.: 17/833,188

ISSUE DATE : 2024-01-09

INVENTOR(S) : Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At INID Code (45), Date of Patent:, replace “Jan. 9, 2024” with -- *Jan. 9, 2024 –

Add INID Code (*). At INID Code (*), add -- Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. This patent is subject to a terminal disclaimer. --

MAILING ADDRESS OF SENDER (Please do not use Customer Number below):
376 Boylston St, Suite 401
Boston, MA 02116
United States

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
17/833,188	**01/08/2024 06:25:10 PM Z ET**	**SGIC-002US02**

Title of Invention

SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

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CONFIRMATION #	7083	FILED BY	Marie Spakowski
PATENT CENTER #	63879056	FILING DATE	06/06/2022
CUSTOMER #	149890	FIRST NAMED INVENTOR	Peter AZUOLAS
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Joseph Teja

Documents

TOTAL DOCUMENTS: 7

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
SGIC-002US02_RequestforCertificateofCorrection.pdf	2	Request for Certificate of Correction	196 KB
SGIC-002US02_USPTO_AIA26_591_03.pdf	2	Terminal Disclaimer Filed	230 KB
SGIC-002US02_USPTO_AIA26_687_02.pdf	2	Terminal Disclaimer Filed	230 KB
SGIC-002US02_USPTO_SB44_.pd	2	Request for Certificate of Correction	181 KB

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SGIC-002US02_USPTO_AIA26_697_01.pdf	2	Terminal Disclaimer Filed	220 KB
SGIC-002US02_USPTO_AIA26_218_04.pdf	2	Terminal Disclaimer Filed	230 KB
SGIC-002US02_USPTO_AIA25_139_05.pdf	2	Terminal Disclaimer Filed	306 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
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SGIC-002US02_USPTO_AIA26_697_01.pdf	F93E975010D870EFBC130B4607E4179BA64F717518D94B2F16A0D25D784DD25FAFE67DE4046BD1CD690F410FB3804669F2728BE6057A435C103A8908304E2FC6

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SGIC-002US02_USPTO_AIA25_139_05.pdf	6DEF2CD6889D190D8872A2CEBDECBA853D91501D080F80228ECBAA87AF67FB40AC8E0FD7AED48D1E59B77D47679D9C54CA5651E5C688CE4828341975A7801E47

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New Applications Under 35 U.S.C. 111

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National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

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TERMINAL DISCLAIMER TO OBVIATE A DOUBLE PATENTING REJECTION OVER A "PRIOR" PATENT	Docket Number (Optional) SGIC-002US02

In re Application of: Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

Application No.: 17/833,188

Filed: 2022-06-06

For: SYSTEMS, APPARATUS, AND METHODS FOR PROVIDING EVENT VIDEO STREAMS AND SYNCHRONIZED EVENT INFORMATION VIA MULTIPLE INTERNET CHANNELS

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/Joseph Teja, Jr./ — Signature
2024-01-08 — Date

Joseph Teja Jr. — Typed or printed name

Partner — Title
617-372-4547 — Telephone Number

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TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION

Docket Number (Optional): SGIC-002US02

In re Application of: Peter AZUOLAS; Kevin APRIL; Brian SILSTON; Philip Nicholas SCHUPAK

Application No.: 17/833,188

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The applicant, SportsCastr, Inc., owner of 100 percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending **reference** Application Number 18474139, filed, 2023-09-25, as the term of any patent granted on said **reference** application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending **reference** application. The applicant hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the **reference** application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

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Application Number	Application/Control No.	Applicant(s)/Patent under Reexamination	
* 17/833,188 *	17/833,188	AZUOLAS et al.	
	Examiner	**Art Unit**	
	RAHMAN, SM AZIZUR	2458	

Document Code - DISQ	**Internal Document - DO NOT MAIL**

TERMINAL DISCLAIMER	☑ APPROVED	☐ DISAPPROVED
Date Filed: **08 January 2024**	**This patent is subject to a Terminal Disclaimer**	

Approved/Disapproved by:

/TRINA STEPTOE/

Technology Center: OPLC

Telephone: (571)272-2577

5 TD`s

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

149890 7590 01/09/2024

SMITH BALUCH LLP
376 BOYLSTON ST
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EXAMINER	
RAHMAN, SM AZIZUR	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
01/09/2024	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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eofficeaction@appcoll.com
smith@smithbaluch.com

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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/833,188	09-Jan-2024	11871088

SMITH BALUCH LLP
376 BOYLSTON ST
BOSTON, MA 02116

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

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149890 7590 01/22/2024

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smith@smithbaluch.com

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United States Patent and Trademark Office
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Alexandria, VA 22313-1450
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Patent No.: 11871088
Issue Date: 01/09/2024
Appl. No.: 17/833,188
Filed: 06/06/2022

PART (A) RESPONSE FOR CERTIFICATES OF CORRECTION

This is a decision on the Certificate of Correction request filed 08 January 2024.

The request for issuance of Certificate of Correction for the above-identified correction(s) under the provisions of 37 CFR 1.322 and/or 1.323 is hereby:

(Check one)
☑ Approved ☐ Approved in Part ☐ Denied

Comments: ____

PART (B) PETITION UNDER 37 CFR 1.324 OR 37 CFR 1.48

☐ This is a decision on the petition filed ____ to correct inventorship under 37 CFR 1.324.

☐ This is a decision on the request under 37 CFR 1.48, petition filed ____. In view of the fact that the patent has already issued, the request under 37 CFR 1.48 has been treated as a petition to correct inventorship under 37 CFR 1.324.

The petition is hereby: ☐ Granted ☐ Dismissed

Comment: ____

The patented filed is being forwarded to Certificate of Corrections Branch for issuance of a certificate naming only the actual inventor or inventors.

/KEVIN T BATES/
Supervisory Patent Examiner, Art Unit 2458
Technology Center 2400
Phone: (571)272-3980

Certificates of Correction Branch email: CustomerServiceCoC@uspto.gov CoC Central Phone Number: (703) 756-1814

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/833,188	06/06/2022	Peter AZUOLAS	SGIC-002US02	7083

149890 7590 02/13/2024

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EXAMINER	
RAHMAN, SM AZIZUR	

ART UNIT	PAPER NUMBER
2458	

NOTIFICATION DATE	DELIVERY MODE
02/13/2024	ELECTRONIC

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APPLICATION NO.	ISSUE DATE	PATENT NO.
17/833,188	13-Feb-2024	11871088

SMITH BALUCH LLP
376 BOYLSTON ST
BOSTON, MA 02116

ELECTRONIC CERTIFICATE OF CORRECTION NOTIFICATION

Your electronic certificate of correction is now available, and can be accessed via Patent Center at https://patentcenter.uspto.gov.

The electronic certificate of correction is the official certificate of correction under 35 U.S.C. 254 or 255. For more information, please visit https://www.uspto.gov/electronicgrants.

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CERTIFICATE OF CORRECTION

PATENT NO. : 11,871,088 B2
APPLICATION NO. : 17/833188
DATED : January 9, 2024
INVENTOR(S) : Peter Azuolas et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page

At Item (*), Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days. add -- This patent is subject to a terminal disclaimer. --

At Item (45), Date of Patent, replace "Jan. 9, 2024" with -- *Jan. 9, 2024 --

Signed and Sealed this
Thirteenth Day of February, 2024

Katherine Kelly Vidal

Katherine Kelly Vidal
Director of the United States Patent and Trademark Office