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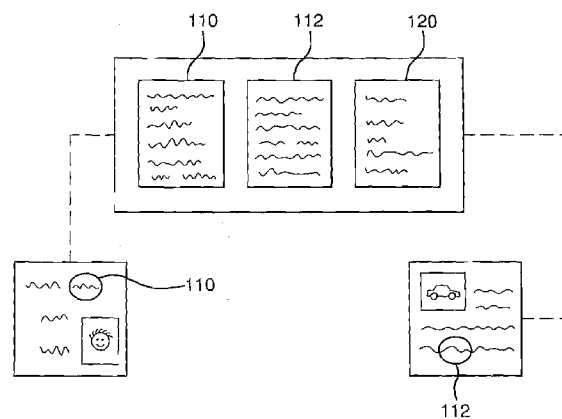


FIG. 2

(57) Abstract: A search engine for rating a plurality of electronic mentions of respective ones of a plurality of brands includes a web crawl engine that seeks mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands, a content reviewer that electronically presents to a manual reviewer the mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions, a scoring input for receiving a first of the ratings from the manual reviewer, at least one electronic rating input for receiving second ones of the ratings of the mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions, and a correlator that normalizes the rating, and that correlates ones of the plurality of brands to a desired purchaser profile in accordance with the normalized rating

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SYSTEM AND METHOD FOR SEARCHING MEDIA ASSETS**Cross-Reference To Related Applications**

- [1] This application claims priority to U.S. Provisional Application Serial No. 61/111,760, entitled "System And Method For Searching Media Assets," filed November 6, 2008; and is a continuation-in-part of U.S. Patent Application No. 12/220,912, entitled "System and Method For Brand Affinity Content Distribution And Optimization," filed July 29, 2008, the entire disclosures of which are incorporated by reference herein in their entirety.
- [2] U.S. Patent Application No. 12/220,912 is a continuation-in-part of: U.S. Patent Application Serial No. 12/144,194, entitled "System and Method for Brand Affinity Content Distribution and Optimization", filed June 23, 2008; claims priority to U.S. Provisional Patent Application Serial No. 61/065,297, entitled "System and Method of Assessing Qualitative and Quantitative Use of a Brand," filed February 7, 2008; and claims priority to U.S. Provisional Patent Application Serial No. 61/131,386, entitled "Apparatus, System and Method for a Brand Affinity Engine Using Positive and Negative Mentions", filed June 6, 2008, the disclosures of which are incorporated by reference herein as if set forth in their entirety.
- [3] U.S. Patent Application Serial No. 12/144,194 is: a continuation-in-part of U.S. Patent Application Serial No. 11/981,646, entitled "Engine, System and Method for Generation of Brand Affinity Content", filed October 31, 2007; a continuation-in-part of U.S. Patent Application Serial No. 11/981,837, entitled "An Advertising Request And Rules-Based Content Provision Engine, System and Method", filed October 31, 2007; a continuation-in-part of U.S. Patent Application Serial No.

12/072,692, entitled "Engine, System and Method For Generation of Brand Affinity Content, filed February 27, 2008; and a continuation in part of U.S. Patent Application Serial No. 12/079,769, entitled "Engine, System and Method for Generation of Brand Affinity Content," filed March 27, 2008, the disclosures of which are incorporated by reference herein as if set forth in their entirety.

- [4] U.S. Patent Application Serial No. 11/981,837 claims priority to U.S. Provisional Application Serial No. 60/993,096, entitled "System and Method for Rule-Based Generation of Brand Affinity Content," filed September 7, 2007, and is related to U.S. Patent Application Serial No. 11/981,646, the disclosures of which are incorporated by reference herein as if set forth in their entirety.
- [5] U.S. Patent Application Serial No. 12/079,769 is a continuation-in-part of U.S. Patent Application Serial No. 12/042,913, entitled "Engine, System and Method for Generation of Brand Affinity Content," filed March 5, 2008, which is also a continuation-in-part of U.S. Patent Application Serial No. 12/072,692, the disclosures of which are incorporated by reference herein as if set forth in their entirety.
- [6] U.S. Patent Application Serial No. 12/072,692 is a continuation-in-part of U.S. Patent Application Serial No. 11/981,646.

Field of the Invention

- [7] The present invention is directed to brand affinity software and, more particularly, to an apparatus, system and method for a brand affinity engine using positive and negative mentions.

Background of the Invention

- [8] In typical current advertising embodiments, although sponsorship and promotional media is an 80 billion dollar industry in the United States, very little sponsorship and promotional advertising is engaged in "on-line," that is, in networked telecommunications environments such as

Internet, extranet, intranet, satellite, wired, wireless, including ad-hoc wireless, and similar communication networks, which employ computers, personal digital assistants, conference phones, cellular telephones and the like. In fact, it is estimated that only 250 million dollars in on-line advertising using sponsorship and promotional material is made available in the United States, or 0.31% of the aforementioned 80 billion dollar industry.

[9] Further, the inefficiencies of obtaining sponsorship and promotional sport in advertising drastically limit the universe of available sponsors and promoters, at least in that, if procurement of a brand can take several months, it stands to reason that advertisers will endeavor to obtain only those sponsors that the advertisers can be assured will have a positive public image and likeability over the course of many months. Needless to say, this drastically limits the universe of available sponsors. For example, it is estimated that, in the multi-billion dollar athletic sponsorship advertising industry, 95% of sponsorship dollars are spent hiring the top 5% of athletes to become sponsors. As such, very few sponsorships are made available by the prior art to less desirable athletes, although such athletes may be less desirable for any of a number of reasons, at least some of which reasons are unrelated to likeability or negative image. For example, a baseball player may be a perennial all-star, but may play in a "small market," and as such may not be deemed to fall within the top 5% of athlete-sponsors. Consequently, although the exemplary player may be very popular in certain areas or with certain demographics, in the prior art it is very unlikely this particular exemplary athlete will obtain much in the way of sponsorships.

[10] Needless to say, the typically lengthy mechanism that precludes sponsorship from occurring on-line thus, as discussed above,

drastically limits the available universe of sponsors. Further, such current mechanisms fail to take into account that certain sponsors may have a willingness to engage in certain sponsorships at certain times, with respect to certain products, or in certain geographic locales, or may be desired as sponsors at certain times, or only in certain geographic locales, or only with regard to certain products. For example, in the sponsorship industry, it is well established that famous actors in the United States may market products internationally that they do not wish to lend sponsorship to in the United States. Additionally, because news with regard to United States athletes or actors, for example, may break more quickly in the United States, those same athletes or actors may experience a lengthened time of availability for desirable sponsorship in other countries. For example, a baseball player may come to be suspected of steroid use in the United States, thereby limiting his desirability as a sponsor for products in the United States, but may nonetheless continue to be popular in Japan until or if such steroid use is definitively proven. Thereby, an inability to efficiently provide for that baseball player to become a sponsor in Japan, where that baseball player may not normally allow for his likeness to be used in sponsorship, may seriously curtail sponsorship opportunities for that baseball player, as well as curtailing advertising possibilities for Japanese advertisers.

[11] Thus, the need exists for an apparatus, system and method to allow for assessment of optimal sponsors for particular markets and/or in particular geographies, and that provides increased sponsorship opportunities in particular markets and/or in particular geographies.

Summary of the Invention

[12] The present invention includes at least an apparatus, system and method of implementing a computerized brand affinity engine. The

apparatus, system and method include at least a plurality of computerized access points having accessible thereto a plurality of sites mentioning at least one sponsor, a categorized, hierarchical database of keywords, wherein at least the keywords falling in at least one category of the hierarchy correspond to a sponsor category of the at least one sponsor, and a tracker, wherein the tracker tracks positive ones of the mentions of the at least one sponsor on ones of the plurality of sites and negative ones of the mentions of the at least one sponsor on ones of the plurality of sites, in accordance with positive and negative keywords of the categorized, hierarchical database in the sponsor category, and wherein the tracker issues an rating with regard to the at least one sponsor in accordance with the positive ones and the negative ones of the mentions.

- [13] Thus, the present invention provides an apparatus, system and method to allow for assessment of optimal sponsors for particular markets and/or in particular geographies, and that provides increased sponsorship opportunities in particular markets and/or in particular geographies.

Brief Description of the Figures

- [14] Understanding of the present invention will be facilitated by consideration of the following detailed description of the embodiments of the present invention taken in conjunction with the accompanying drawings, in which like numerals refer to like parts and in which:
- [15] Figure 1 illustrates an exemplary embodiment of the present invention;
- [16] Figure 2 illustrates an aspect of the present invention;
- [17] Figure 3 illustrates an aspect of the present invention;
- [18] Figure 4 illustrates an aspect of the present invention;
- [19] Figure 5 illustrates an aspect of the present invention;
- [20] Figure 6 illustrates an aspect of the present invention; and

[21] Figure 7 illustrates an aspect of the present invention.

Detailed Description of the Preferred Embodiments

[22] It is to be understood that the figures and descriptions of the present invention have been simplified to illustrate elements that are relevant for a clear understanding of the present invention, while eliminating, for the purpose of clarity, many other elements found in typical advertising engines, systems and methods. Those of ordinary skill in the art will recognize that other elements and/or steps are desirable and/or required in implementing the present invention. However, because such elements and steps are well known in the art, and because they do not facilitate a better understanding of the present invention, a discussion of such elements and steps is not provided herein. The disclosure herein is directed to all such variations and modifications to such elements and methods known to those skilled in the art. Furthermore, the embodiments identified and illustrated herein are for exemplary purposes only, and are not meant to be exclusive or limited in their description of the present invention.

[23] It is generally accepted that advertising (hereinafter also referred to as "ad" or "creative") having the highest impact on the desired consumer base includes endorsements, sponsorships, or affiliations from those persons, entities, or the like from whom the targeted consumers seek guidance, such as based on the endorser's knowledge of particular goods or in a particular industry, the fame of the endorser, the respect typically accorded a particular endorser or sponsor, and other similar factors. Additionally, the easiest manner in which to sell advertising time or blocks of advertising time is to relay to a particular advertiser that the advertising time purchased by that advertiser will be used in connection with an audio visual work that has an endorsement therein for that particular advertiser's brand of goods or services. As used

herein, such an endorsement may include an assertion of use of a particular good or service by an actor, actress, or subject in the audio visual work, reference to a need for particular types of goods or services in the audio visual work, or an actual endorsement of the use of a product within the audio visual work.

[24] Endorsements may be limited in certain ways, as will be apparent to those skilled in the art. Such limitations may include geographic limitations on the use of particular products (endorsers are more likely to endorse locally in various locales rather than nationally endorse, in part because national endorsements bring a single endorsement fee and generally preclude the repetitious collection of many smaller fees for many local endorsements), or limitations on the use of endorsements in particular industries, wherein a different product or a different industry may be endorsed (such as in a different geographical area) by the same endorser, or limitations on endorsements solely to a particular field(s) or type(s) of product, rather than to a specific brand of product. Further, endorsements by particular endorsers may be limited to products, brands or products or services, types of products or services, or the like which have been approved by one or more entities external from, but affiliated with, the specific endorser. For example, the National Football League may allow for its players only to endorse certain products, brands of products, types of products, or the like, that are also endorsed by the NFL.

[25] More specifically, as used herein endorsements may include: endorsements or sponsorships, in which an individual or a brand may be used to market another product or service to improve the marketability of that other product or service; marketing partnerships, in which short term relationships between different products or services are employed to improve the marketing of each respective product or

service; and brand affinity, which is built around a long term relationship between different products or services such that, over time, consumers come to accept an affinity of one brand based on its typical placement with another brand in another industry.

[26] At present, there is a need for a platform or engine to allow for the obtaining of an endorsement, or endorsed ad, in any of the aforementioned circumstances, either from a specific individual, a specific entity, an affinity brand, a marketing partner, or a sponsor. The development of a targeted advertisement involves a dynamic interrelationship between all relevant factors, such as, for example, the goods, the purchasers, the endorsing personalities and their agents, and the existing or upcoming media associated with each. The ideal advertisement engine must be able to harness and manage all aspects of each of these factors, based upon only a limited number of parameters from which to initiate and generate the advertisement.

[27] As illustrated in Figure 1, the brand affinity software engine 10 of the present invention may provide a recommendation engine 12, a creative engine 14, a fulfillment engine 16, and a management engine 18. Those skilled in the art will appreciate that, although these engines are illustrated collectively in Figure 1, that the present invention additionally contemplates the use of each of these engines discretely from the remaining illustrated engines. In this exemplary embodiment, the recommendation engine may, based on any number of known or assessed factors, recommend a sponsorship brand for use at certain times, in certain geographies, or with regard to certain products or services. The recommendation engine may generate recommendation metrics, may issue scores, rankings, or the like. The creative engine may provide one or more templates for the creation of sponsored advertisements, and may additionally provide content, such as from a

content "vault" that includes content of a variety of media formats and with respect to a myriad of sponsors, for inclusion in a creative generated using the advertising template. For example, such content may include text, such as quotes, audio, video, pictures, highlights, or the like, and such content may have limited availability categorized by time, location, product, service, or the like. The fulfillment engine of the present invention may, based on direct or redirect advertising delivery, deliver the advertisements created using the creative engine. It almost goes without saying that advertisements created for fulfillment using other advertising creation engines may likewise be incorporated into the fulfillment engine of the present invention for delivery with advertisements created using the creative engine of the present invention. Finally, the management engine of the present invention provides for tracking and reporting, as well as feedback for improved metrics, of the advertisements placed using the present invention.

[28] As referenced hereinabove, the recommendation engine may provide brand metrics for sponsoring brands, and the management engine may provide feedback with regard to modifying or improving the brand metrics of sponsoring brands and/or sponsored ads. Such metrics may be gauged in any number of ways, certain of which will be apparent to those skilled in the art in light of the disclosure herein. For example, as illustrated in Figure 2, positive 110 and negative 112 mentions of sponsoring brands 114 may be tracked, such as by comparison of those brands with predetermined sets and/or subsets of "good" and "bad" keywords 120 for association with those sponsoring brands. Thereby, valuation may be assigned to certain keywords in the present invention, and the value of certain sponsoring brands may be tracked, based on association with those keywords, over time, in certain geographies, in certain markets, and/or with regard to certain products

or services, and the like. Keywords may, of course, be "good" to be associated with, meaning such keywords are indicative of positive associations with the sponsoring brand, "bad" to be associated with, meaning such keywords are indicative of negative associations with the sponsoring brand, or "neutral."

[29] Such keywords may be hierarchically organized as illustrated in Figure 3, such that searches are performed only on certain categorically matched subsets 202 of such keywords 120 for sponsoring brands falling in particular categories 204. Needless to say, all keywords may be run against all brands, rather than employing the aforementioned hierarchal setup, and/or certain sponsoring brands may be associated with multiple subsets of keywords simultaneously based on their presence in multiple categories of sponsoring brands.

[30] Thus, for example, a certain sponsoring brand falling within the category "professional sports," a subset "baseball," and the sub-subset "San Francisco Giants," may be subjected to a plurality of Google or other search engine searches in association with positive keywords, such as home run, all star, hall of fame, charity, game winning, outstanding, of the year, and the like. Conversely, the presence of a baseball player in such a category may indicate similar searches for negative keywords such as steroids, cheat, gamble, attorney, perjury, court case, jail, incident, arrest, drunk driving, and the like. Needless to say, such positive or negative searches may be performed in a strictly boolean manner, such as requiring only the presence of the named athlete and one of the key words in a particular location, or may be performed as stream expression searches, whereby a mention of the athlete within five words of a certain keyword or ten words of another keyword, is searched. Such searches are illustrated in Figure 4. Needless to say, such searches may, in the case of Google, for

example, return a number of hits for positive or negative keywords. Alternatively, other media may be searched, such as wherein a number of youTube views are tracked for positive or negative videos or audio, greater numbers of views or downloads are tracked as being more positive on youTube or iTunes, positive or negative references are tracked in on-line and/or print media, such as magazines and newspapers, video requests are tracked Internet-wide for videos using the sponsor, iTune downloads are tracked for videos or audio using the sponsor, number of presences on youTube or iTunes is tracked, or the like.

[31] As mentioned hereinabove, the value of a reference to a sponsoring brand in association with a particular keyword may receive a rating, such as wherein the keyword has a particular rating associated with it, or, for example, wherein the number of times a person has been associated with that reference receives a different rating, such as a strength of reference rating. For example, if a particular football player receives ten thousand references in accordance with a particular search, and only one of the ten thousand references mentions the negative keyword "marital affair", it stands to reason that such a reference is unlikely to have any true negative effect on a sponsoring brand, in part because such a limited reference is unlikely to be very reliable. Thus, a strength of reference may increase as the number of associated references of a particular sponsoring brand with a particular keyword or keywords continue to occur.

[32] Further, for example, a first time reference may act as a triggering mechanism for review for additional references. For example, a recent scandal affecting a National Football League team involved a party on a boat, and although "boat" might not be a term typically searched for in association with a National Football League player, a first time mention

of a player in association with the word "boat" may act as a triggering mechanism for additional searching for mention of that player, or those players, in association with that keyword.

[33] In an exemplary embodiment of the present invention, a football player is mentioned in association with a particular keyword. The keyword association may be assigned a + 1 to + 10 rating for a positive keyword associative mention, or a - 1 to a - 10 rating for a negative keyword association. Additionally, if the associated keyword is flagged for association with the sponsoring brand searched, but in actuality does not apply for any one of a number of reasons, such as an unreliable source or an actual reference to a different party, the association may be marked with a N/A, for example. Such associations and keyword rating of mentions may be performed automatically, or, upon flagging of a particular sponsorship brand, may be performed manually. Manual searchers may, needless to say, receive training in order to use consistent numerical ratings for associative mentions. Further, manual searchers may receive retraining such as wherein, for example, 100 searchers rated a particular mention or series of mentions as a + 5. In such a case, such mentions or similar mentions may be repeatedly re-routed to a particular searcher-in-trainer until that searcher in training begins to rate such mentions within a predetermined acceptable variation of + 5.

[34] Continuing with the aforementioned exemplary embodiment, upon occurrence of a triggering mechanism, searches may be performed at predetermined intervals, such as daily or weekly, to check for a second and additional associative mentions. Thereby, a number of associative mentions at a particular rating may be assigned. For example, the mention of baseball player John Doe in association with "steroid scandal" may receive a rating of - 5 for the first one hundred mentions,

and - 7 for all additional mentions, and may result in two hundred mentions at an average of - 6 rating. Thereby, with respect to that keyword, baseball player John Doe would receive a total rating of - 1200. However, if during the same time frame the same baseball player John Doe was mentioned two hundred times in conjunction with "charitable contributions", at an average rating of + 7, baseball player John Doe may receive a + 1400 rating during the same time frame. Thus, mentions of baseball player John Doe may be separately tracked as positive mentions, negative mentions, neutral mentions, and/or may be combined into an overall rating, which in the above-referenced example would be a + 200, during the referenced time frame in the market tracked and based on the keywords tracked. Thereby, a sponsoring brand may have associated therewith a "heat index," wherein the greater the total positive rating for all keywords tracked in all markets tracked may constitute how "hot" a sponsor is globally, and similarly a total negative rating would track how "cold" a particular sponsoring brand was. Needless to say, the above is exemplary in nature only, and similarly tracking could occur not only on a positive or negative association basis, but additionally on a geographic, product, service, or other basis. For example, the aforementioned "hot" and "cold" rating system may be used to draw a geographic "heat map," wherein the rating of a sponsoring brand in particular geographic markets may be laid out on a map illustrating the hotness or coldness of the sponsoring brand uniquely in each geographic market tracked.

[35] Additionally and alternatively, the associative mechanism discussed hereinabove can operate with any desired sponsoring brand, and not necessarily a particular person. For example, exemplary brand "Red Fish Blue Fish Sail Boats" may be searched in conjunction with "sea worthy," "best value," "most popular" and "great fun" for positive

associations, and may be searched in association with “crash,” “death,” or “sink” for negative association. Thereby, the recommendation engine of the present invention may be extended beyond sponsorship, and may be used to assign positive or negative ratings to almost any entity. Thus, particular entities may make use of the present invention to monitor the strength of their own respective brands, such as in different markets or in different geographies.

[36] Further, for example, the present invention may be used in the performance of searches, such as internet-based searches, for positive and negative mentions associated with anything or anyone, and in fact the present invention may thus provide a mechanism whereby a searcher can engage the present invention to search not only with regard to just selected entities or persons, but further with regard to only certain keywords or subsets of keywords. For example, parents may perform global searches for the names of children in association with keywords such as “drugs”, or may limit searches to the names of children and their friends only on MySpace.com, only in the state of Wisconsin, and/or only with regard to all subsets of keywords under the topic “drugs.” Likewise, for example, prospective clients may perform keyword searches for their prospective attorneys or doctors in association with keywords such as “malpractice.”

[37] Thus, a brand affinity rating may be assigned in accordance with the recommendation engine of the present invention. Needless to say, the attributes and/or keywords reviewed for association with particular brands or sponsoring brands may vary by industry, such that the present invention may be used to generate side-by-side comparisons versus competitors by time, geography, product, or the like. For example, in the pharmaceutical industry, a particular brand name may be searched for associations versus a generic equivalent, using

keywords such as "side effect," "health benefit," "cost effective," and the like. Such a search may be performed by time, by geography, or the like. For example, if a brand name manufacturer of a high blood pressure drug suddenly sees a dip in its rating too, for example, a - 700 versus competing generics in a certain geographic region, such as the northwestern United States, it becomes obvious that that particular brand name must assess what sort of news has broken in the northwestern United States to negatively affect the brand versus the generic, and/or must change or improve their marketing program in some way in the northwestern United States.

[38] Similarly, the present invention may be used as a tool for marketing projections over time. It almost goes without saying that the most positive effect an advertising tool can have is to predict who the next big sponsoring brand will be in a particular market or in a particular locale, for example. For example, it may be that certain events on the PGA tour in certain locales create particularly positive "buzz" for certain players on the PGA tour in those areas. Such an outcome would not be surprising, because, of course, as the PGA tour moves to different events, the media moves with the touring professionals, and thus the qualitative and quantitative mentions of those touring professionals will increase with the movement of the tour, that is, will increase in the locales of the next tour events. However, this may not be the case for every tour event, such as the minor tour events, or it may not be the case for every touring professional in every locale. For example, foreign touring professionals may not experience increased buzz in certain locales, such as in the deep southern United States.

[39] The present invention, nonetheless, can predict, in the aforementioned example, what PGA tour event, in what city, will affect, or most positively affect, what touring professional or professionals. Thus,

using the present invention as a predictive tool, an advertiser can buy sponsorship of a sponsoring brand of the touring professional experiencing the most positive buzz in the particular locale just before the increase in publicity is to occur. The present invention may, of course, additionally make use of historical data on the "buzz" associated with a certain tour professional in a certain locale to further refine the predictive capabilities of the present invention based on the positive and negative mentions associated with that tour professional.

[40] The present invention may also include a unique and customizable searching mechanism and engine for identifying those keywords, assets, talents, or any other item available in the system databases and networks.

[41] It should be appreciated that standard search engines provide an interface to items or a grouping of items that enable users to specify certain criteria, or a search query, about an item of interest within the grouping of items, wherein the search engine finds the items of interest responsive to the search query. In the case of text searching, for example, the search query is typically expressed as a word or set of words that identifies conceptually the item of interest that one or more documents, hits, links, feeds, pages, or the like, may contain. While some text search engines require users to enter words separated by white space, other search engines may enable users to specify entire documents, pictures, sounds, and/or other various forms of natural language or stream searches.

[42] Typically, a list of items meeting the criteria specified by the query are sorted and/or ranked upon being returned responsive to the search query. For example, while boolean search engines typically only return items which match exactly without regard to order, ranking items by relevance may reduce the time required to find the desired information,

as will be understood by those skilled in the art. Other search engines may rank items based on measures of similarity between each item and the query, or by popularity or authority, or may even use a relevance feedback mechanism, for example.

[43] To provide a set of matching items that are sorted according to certain criteria, a search engine may typically collect metadata about the items under consideration through a process often referred to as indexing. Indexing typically requires a smaller amount of computer storage, which is why some search engines only store the indexed information and not the full content of each item, and instead provide a method of navigating to the items in a search result. Alternatively, the search engine may store a copy of each item in a cache so that users can see the state of the item at the time it was indexed or for archive purposes or to make repetitive processes work more efficiently and quickly. Some search engines do not store an index. For example, a spider type or real time search engine may collect and assess items at the time of the search query, and consider additional items based on the contents of a starting item, such as a seed or seed URL. In other examples, a meta search engine will not store an index or a cache, and instead may reuse the index or results of one or more other search engines to provide an aggregated, final set of results.

[44] The present invention may include the aforementioned searching mechanisms as well as other improvements to search queries to increase the likelihood of providing a quality set of assets. Such improvements may include a reformulation of a seed query to improve retrieval performance. Queries may be expanded by evaluating a user's input and expanding the search query according to a set of expansion rules to match additional documents. For example, the system may search for and provide synonyms of input words, or search

for various morphological forms of input words by stemming some or all of the input words. The system may also provide a corrected spelling error search based on either the incorrect spelling, the corrected spelling, or both. The system may also alter the weighting of input terms from the query. By incorporating any of these search mechanisms either separately or in any combination, the precision of the search results can potentially increase.

[45] By utilizing a variety of searching mechanisms in combination with the unique parameters associated with the assets made available by the present invention, a user may perform single or multi-tiered searches to not only find a particular asset of interest, but to further present to the user those assets that best meet current advertising needs. The searching mechanism may effectively become a hierarchy of filters based on parameters unique to the present invention. For example, a user may search based on a defined geographic area, such as by entering searchable terms requiring that the asset may be used only within the greater Boston area, or the asset may not be used anywhere but Washington State. In another example, searches may be based on a period of time, such as entering searchable terms requiring that the asset may be used on weekday prime-time hours, or the asset may not be used on Sundays between 12:00 p.m. and 7:00 p.m. In another example, searches may be based on pairing or matching with other particular assets, such as entering searchable terms requiring that the asset may be used in combination with an erectile dysfunction product. In another example, searches may be based on price or cost, such as entering searchable terms requiring that the asset be under a threshold price, or within a defined price range. It should be appreciated that all such searches may be based upon any metric as described herein, including use of keywords for positive and negative mentions, and as

may be associated with the targeted asset. It should also be appreciated that any combination of the aforementioned searches, with or without use in conjunction with post or multi-step searches, may be performed. For example, a user may first perform a keyword search for positive and negative mentions, and based on the results, perform a secondary search for those mentions within a defined geographical area.

[46] In another example, a user searching for a specific asset representing Tom Brady may include searchable terms and/or filters requiring a price per minute no greater than a threshold value for use in the states of Massachusetts, New Hampshire, Connecticut and Rhode Island at non-primetime viewing hours and not during any time in which a National Football League game is being played, and which asset may be associated with the sale of new and/or used automobiles. Alternatively, the search may include all the same parameters other than being specific for Tom Brady, such that a list of players meeting the search criteria are provided to the user for further selection. It should be understood that there is no limit to the number and application of combinations of searchable and/or filtering terms for use with the present invention. Further, needless to say, a search request may, based on a rule, for example, be forwarded, or forwarded upon a certain occurrence, to an asset owner or one associated with an asset owner for any necessary approvals of use or the requested asset at any point in the process discussed herein.

[47] According to another aspect of the present invention, the system may further include selectable categories to narrow a search. For example, the system may tag a particular talent based on occupation, such as by athlete, actor/actress, musician or politician. It should be appreciated that any information tracked by the system that can be categorized may

be associated with a talent or asset and may be included in a selectable form to aid in a search performed by a user. Without limitation, such information may include buzz ratings, cost, geography, time, metric score, age, events, interests, and any other information as described herein. The system may include further drill downs, such as when the category "athlete" is selected, the system may provide athlete categories such as NFL, MLB, Olympic Swimmer, or any other sports category as understood by those skilled in the art. These categories may be confirmed by the talent upon entry into the system, or may be later entered or updated via a "profile" as described herein below.

[48] According to another aspect of the present invention, the system may include, either optionally or as a modifiable requirement, a "profile" for each endorser or talent associated with the system. For example, such a profile may take the form of a survey, questionnaire or other fillable and sortable format for the endorser or talent to identify personal preferences and facts that the endorser or talent would like to be associated with and/or have associated with the assets for that talent. By identifying such personal preferences and facts associated with the endorser or talent, the endorser or talent may position themselves to attract users of the system via the various searching mechanisms described herein to utilize the endorser or talent in the construction of an advertisement and/or ad campaign.

[49] For exemplary purposes only, and without any factual basis for such example, musician Justin Timberlake may have entered into his profile that his marriage status is single, he was born in Memphis Tennessee, likes Ford Mustangs and wears jewelry, particularly titanium chains. Thus, when a user of the system enters search terms or keywords related to Justin Timberlake's profile information in a search for an endorser for titanium jewelry in southern United States urban areas,

Justin Timberlake would receive a "hit" in the search results as a useable asset.

- [50] In another example, a search may occur for an endorser for a man's cologne product with a retail price of \$70.00 for a target audience of men between the ages of 18-35. A user may know he would like to use a female model with a current cost between \$6 and \$8 per asset use. The user can first select by category the occupation of model, and then select by the subcategory of female. With the pool of endorsers narrowed, the user can enter search terms such as fragrance, \$6-8, single and centerfold to obtain a search result list to either select an endorser from, or to further filter by adding additional search terms.
- [51] Of course, because the present invention connects the brand metrics of the recommendation engine to the generation of a creative in the creative engine, and subsequently to the fulfillment engine wherein a buy of available advertising space occurs for placement of the creative, the present invention allows for a connection of the purchase of available advertising space directly with the brand affinity metrics discussed hereinabove. More specifically, available advertising space may be purchased, for example, by a particular advertiser for use with a particular sponsor only in those geographies in which that advertisement with that sponsor will have the greatest impact. Additionally, this may occur, as discussed hereinabove, in a predictive manner, wherein advertising space is purchased cheaply in advance of a particular occurrence, but when the event occurs, the use of that advertising space in conjunction with the sponsoring brand provides a maximized impact for the minimal expense incurred in buying the available advertising space in advance.
- [52] The presence of the management engine in the present invention allows for feedback with regard to the success of advertisements

placed by time, location, product, service, or the like. Further, such feedback may allow for the comparisons discussed hereinthroughout, such as comparison of a particular sponsoring brand against a baseline "no sponsoring brand". Thus, the positive effects of the use of sponsoring brands may be tracked by sponsoring brand, product, service, market, time, geography, or the like.

[53] As such, the present invention, although capable of measuring the value of a particular creative, product, or service, more importantly provides a measurement of what, or who, can endorse a particular product or service in order to help sell that product or service at a particular time, to a particular market, or in a particular location. For example, the present invention might allow for an assessment that a significant sports star, such as Tiger Woods, which one might not necessarily think would constitute a good endorser of hand soap, would indeed be a failed brand association during the summertime in Texas on automotive-related websites. However, the present invention might likewise provide a somewhat surprising assessment that Tiger Woods advertising hand soap on a cosmetics site in the winter time in New Jersey would in fact lead to a significant increase in the success of sponsored advertisements placed meeting that criteria. Thus, the present invention provides the capability to leverage sponsoring brands at particular times in particular locations, either by seeking that sponsoring brand, or by searching across multiple sponsoring brands for ones that most cost effectively create the desired buzz at the appropriate time, in the appropriate market, and at the desired location.

[54] Additionally, the present invention may allow for the association of sponsoring brands with certain key events, and for advertisers to be alerted to the likely successful sponsoring brands upon the occurrence of those certain events. For example, the annual inductions into the

Baseball, Football or Rock and Roll Halls of Fame may lead to improved sponsorship response to the sponsoring brands inducted into those respective Halls of Fame. Further, the present invention may provide information as to how long such a "bounce" in positive feelings toward the inductees may last from an advertising standpoint. Additionally, the present invention may provide information as to what locations this "bounce" is most likely to occur in. For example, if a particular baseball player is inducted in the Baseball Hall of Fame after playing his entire career for the Philadelphia Phillies, and it is known that the positive bounce for a Baseball Hall of Fame inductee typically lasts three months from the date of their induction and is strongest in the location during which the player played during his career, it would be suggested by the present invention that an advertiser seeking a sponsor in Philadelphia use as the sponsor the Hall of Fame inductee starting upon the Hall of Fame induction and for three months thereafter. Upon the expiration of the three months, the present invention allows for a revision in advertising policy in real time, with a change to a new desirable sponsorship brand occurring almost instantaneously upon the decision to change over from the marketing campaign using the Hall of Fame inductee. Of course, the present invention thus makes available sponsorship opportunities which may not otherwise be available. For example, in the aforementioned example, the present invention may assess that Baseball Hall of Fame inductees typically experience a national "bounce" as sponsors for two weeks following their inductions. Thereby, the aforementioned Philadelphia Phillies player may have open to him a sponsorship opportunity in Seattle for two weeks after his induction into the Hall of Fame, which Seattle sponsorship opportunity might not otherwise be made available to the player.

- [55] With regard to improved brand sponsorship gained through the use of the present invention, as discussed hereinthroughout, it is known in the existing art to engage in a myriad of different types of advertisement online. Two such advertisement types are: a search advertising model, in which a user undertakes to search for a good or service of interest and receives, as part of or as indicated with a search result(s), advertisements relevant to purchasing the good or service for which the search was made and/or to purchasing goods or services related to the good or service for which the search was made; and a display advertising model, in which a user is actively viewing a web site and receives, as part of the web site under review, advertisements for the purchase of goods or services relevant to the content of the web site under review. Needless to say, the former operates on the principal that, if a user searches for a good or service, he/she would like to buy that good or service, and the latter operates on the principal that if a user is interested enough in the content of a web site to view that web site, he/she is also likely interested in buying goods or services related to the content of that web site.
- [56] The display advertising model mentioned hereinabove is typically embodied as banner on a web site. For example, such banners may appear above, below, to the left, or to the right of the content being viewed, but typically do not impinge upon the content being viewed. The search advertising model mentioned hereinabove is typically embodied as advertisements/banners placed proximate to search results on the search results page responsive to the user search. For example, such advertisements may appear along a right hand side of a search results page, while the search results are displayed along the left hand side of the same search results page.

- [57] As discussed immediately above, it is necessarily the case that the correlations performed between the user's searched or viewed content and the advertisements provided will increase the relevance of, and thus the response to, the advertisements. However, such responses in the form of either clicks on the advertisements or purchases made through the advertisement link, once obtained at a particular rate, cannot be further improved merely by the relevance of the advertisements produced. Rather, the only manner to improve the response rate once relevant advertisements are produced is to improve the advertisements themselves based on the users viewing the advertisements.
- [58] The present invention provides such improved response advertisement through the provision of improved brand affiliations with the goods and services being advertised, based in part on making use of "buzz" associated with certain sponsors, as discussed hereinthroughout. As discussed, the present invention allows for the production of advertisements having brand sponsorship that is optimized to the market sought. That is, the brand sponsor selected for an advertised good or service is, through the use of the present invention, selected to best correspond to the characteristics of the purchaser sought by the advertisement.
- [59] This effect is illustrated with respect to Figures 5 and 6. Figure 5 illustrates the effect of the present invention with regard to a search advertising model, and Figure 6 illustrates the effect of the present invention with respect to a display advertising model. In each of Figures 5 and 6, a brand sponsor has been selected who will indicate, to the user for whom the advertisement is deemed most relevant, trust, quality, value, a relationship to the user, and/or an overall positive feeling. The sponsor is either selected by the advertiser in the present

invention for inclusion with the subject advertisement, based on the profile of a desired purchaser and the characteristics of that sponsor as they relate to that profile, which relation is set forth or suggested by the present invention, or the sponsor is selected by the present invention for inclusion in or with the subject advertiser's advertisement based on a desired responder profile for the advertisement entered by the advertiser to the engine of the present invention.

[60] As illustrated graphically in Figures 5 and 6, a positive correlation of a brand sponsor to a brand, which is necessarily also a correlation of a brand sponsor to those purchasers most interested in buying the subject brand, correlates positively to a increased transaction rate. In other words, to the extent the present invention provides brand affiliations, sponsorships, and the like that are well-suited to the sponsored brand, that brand will show an increase in the number of users who are shown that advertisement and that either click that advertisement or purchase that brand through that advertisement. It is estimated that the increase in the desired response rate in accordance with the use of the present invention may typically be a 3 to 5 times increase, based on the increased positive correlation between the sponsored brand and the brand sponsor provided by the present invention, although those skilled in the art will understand that more or less improvement in the transaction rate may occur based on the implementation of the present invention.

[61] Thus, in accordance with the present invention, and as illustrated in Figures 5 and 6, an increased correlation of a brand sponsor to a sponsoring brand, and thus an increased correlation of a sponsoring brand to a desired purchaser's profile, is provided. This increased correlation generates an improved transaction rate in accordance with

the present invention, for at least a search advertising model and a display advertising model.

[62] Certain embodiments of the present invention with regard to positive or negative scoring of mentions may be performed automatically, as discussed hereinthroughout or, as discussed hereinthroughout, certain embodiments of the present invention may be performed manually. Additionally, certain embodiments in the present invention may constitute the union of automatic and manual review. Such embodiments are summarized in the illustration of Figure 7. The programmatic scoring apparatus 700 for scoring one or more mentions of one or more sponsoring brands, illustrated in Figure 7 may include a content review window 702 to present an item to be scored to a reviewer, and a scoring input 704 by a scoring reviewer 706. The scoring apparatus may additionally include a review tracker 710 that tracks scores entered into the scoring input along with characteristics associated with the scoring input, and/or a manager's engine 720 that manages the scoring input to provide limited deviation among at least two of the scoring inputs.

[63] In part, the reason for the variability in the embodiments of the present invention is that review and scoring rules must be strictly applied in order for the subject metrics to have maximum effect. For example, as discussed hereinthroughout, if a first manual or automatic review produces a rating of three, and a second automatic or manual review produces a rating of eight, for the same article, the variability in the scoring allows for no conclusions to be made with regard to the mention of the subject sponsoring brand. Thus, in one exemplary embodiment of the present invention, first arising mentions of particular sponsoring brands of interest may be referred to experts in the categorical field into which that sponsoring brand falls. For example, a first arising mention

of an NFL quarterback being arrested for domestic violence may be referred to an expert in use of NFL players as sponsoring brands. This initial expert reviewer may be aided by certain automatic tools associated with the present invention, such as wherein the article is abstracted, highlighted, or the like to specifically target the mentions of interest to the reviewer. The subject expert then scores the mention, either positively or negatively, and the mention is then referred to other like experts in the same or similar fields. Those other experts may then also score the mention, and for each scoring expert, a tracking may be performed of the score, the variability from a typical score given by that expert, how long the mention was reviewed before the scoring occurred, who the scorer was, the experience with regard to scoring of that scorer, and a comparison of that score, along with the variability of that score, from other scores with regard to the same or similar mentions.

[64] Thus, the present invention allows for an upper tier of expert scorers, and lower tiers of greater numbers of scorers. Needless to say, once the scorer metrics of the lower tier scorers approach those of the expert scorers, the lower tier scorers may likewise become experts, and greater weight will be accorded to their respective scorings.

[65] Further, the applicable rules for scoring variability are softened in the present invention with regard to both expert and non-expert scorers in the event that very few mentions occur with regard to the subject incident being scored. For example, as discussed hereinthroughout, in the event that only two internet mentions occur of a particular sponsoring brand mistreating animals, it is quite likely that such mentions are false or mis-associated, and thus the scoring of such mentions is less important than the scoring of other more highly true mentions. Thereby, sponsoring brands receiving greater numbers of

mentions with regard to certain topics are subject to more strict scoring rules with regard to scoring experts and non-experts than are brands receiving fewer mentions. Thus, for example, scoring rules may be more strict for certain topical mentions of actor Tom Cruise, or for all mentions of actor Tom Cruise, than such rules would be for a lesser known actor, or for an actor receiving significantly fewer mentions.

[66] In accordance with the discussion immediately hereinabove, the reviewing engine of the present invention may include the review manager's engine of Figure 7 that allows for the granting of review privileges in accordance with the present invention. More specifically, the manager's engine may allow, manually or automatically, for adjustment in the scores of certain reviewers, and/or for the changes in expertise levels of certain reviewers upon the meeting of certain review criteria. For example, the manager's engine may, interstitially or continuously, insert certain articles having certain mentions of certain sponsoring brands with regard to certain topics. The manager's engine may track the scores, timing, and the like granted by particular reviewers, and may continue to perform such training exercises until that reviewer's scorings come within an allowable deviation from an acceptable review score of such sponsoring brand, or of such mention, or in such category. Thereby, reviewers can be trained to grant scores within an acceptable deviation, scores can be changed based on information gained about the scoring reviewer, or re-scoring can continue regarding certain brands, mentions, categories, or the like, for example, until a scorer begins to grant scores within an acceptable deviation to allow that scorer to "go live."

[67] Of course, as referenced hereinabove, sponsoring brands may be prioritized as to whether, or if, mentions of such sponsoring brands are reviewed. For example, a local, unknown actor having a total of two

advertisements nationwide in which that actor is used as the sponsoring brand would merit little attention to rating mentions of that actor were that actor to rob a bank, but, in the event a more well-known actor, such as Governor Arnold Schwarzenegger, were to rob a bank, scoring would become far more important. In such an event wherein a well-known sponsoring brand received numerous surprising mentions regarding the same topic, the present invention would, as discussed hereinabove, allow for multiple article mentions to be reviewed by different people, within or without those people being in a categorically related field of expertise. In the event that the scores accorded the multiple articles were relatively standard with little deviation, the assumption may be made that the reviewers are all of expert level with regard to that category, and/or with regard to such mentions, and/or with regard to such a sponsoring brand, but if the scores are inconsistent and/or illustrate significant deviation, other avenues may be necessary. For example, in the case of such inconsistent scores, statistical analysis may be performed. For example, outlying scores may be eliminated from contribution to the total score, only scores falling within a certain standard deviation may be used in scoring, or multiple new articles regarding the same mention may be sent to the same group of people for rescoring, or may be sent to a different group of people for a new scoring in repetition until the total scoring regarding the subject mentioned is within an acceptable statistical limit. Thereby, statistical accuracy allows for improved ratings of mentions, particularly with regard to more significant sponsoring brands receiving more numerous mentions. Of course, in certain embodiments and with regard to certain mentions, the ratings may never, in fact, statistically converge, for a myriad of possible reasons.

- [68] For example, in the event that a significant actor robbed a bank because all of his or her money was stolen by an agent, and in fact the actor needed the money to care for an ill child, persons having expertise in rating mentions regarding robberies, or crimes in general, may attribute wildly different scores to the subject mention, in part because some or all of the scorers may feel that the extenuating circumstances of the crime should significantly affect the negativity, or positivity, of the subject mention. Thus, in such convoluted circumstances, scores regarding the mention may never converge, or in fact a very negative occurrence may converge on a surprisingly positive score.
- [69] In anticipation of the aforementioned eventual convergence, or non-convergence, of scoring, the frequency of scoring may vary with regard to the type of mention, the sponsoring brand of interest, the category of mention, or the like. For example, in the above referenced embodiment, in the event an actor robbed a bank, scoring of all mentions may occur repeatedly, such as eight times per day, for the first week after the occurrence. Thereafter, scoring may be performed once per day for the next week, and twice per week thereafter, for example, until the number of mentions, or the score of mentions, fall above or below a certain threshold. Thus, variability in review periods may be determined programmatically, such as by sponsoring brand, type of sponsoring brand, category of sponsoring brand, mention, type of mention, category of mention, reviewer scores deviations, numeric average reviewer score, or the like.
- [70] Of course, mentions may be tracked and flagged based on the presence of key words, such as key words constituting sponsoring brands in certain events, as discussed hereinthroughout. However, in certain events, key words may not alert reviewers that an article should

be placed under review. For example, in the event a particular actor's family member has made anti-Semitic remarks, monitoring for key word mentions may not be sufficient to flag such mentions to enable review. For example, in this example, if certain keywords were subject to search, such as "Christian", "Jewish", "Father" and the actor's name as a sponsoring brand, even a mention that met all of these key words might not be flagged as having any negative connotation, in part because the key words themselves, in the abstract, do not have any negative connotation. In such cases, however, it is likely that a spike will occur in the number of mentions of the sponsoring brand. Thus, the present invention is preferably fluidic in that, even in cases where key word mentions do not force review of certain sponsoring brands, other events, such as simply spikes in the number of mentions of a sponsoring brand, may flag that sponsoring brand and those mentions for review.

- [71] Those of ordinary skill in the art will recognize that many modifications and variations of the present invention may be implemented without departing from the spirit or scope of the invention. Thus, it is intended that the present invention cover the modification and variations of this invention provided they come within the scope of the appended claims and their equivalents.

Claims

What is claimed is:

1. A search engine for locating and rating a plurality of electronic mentions of respective ones of a plurality of brands, comprising:

a web crawl engine that seeks mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands;

a content reviewer that electronically presents to a manual reviewer the mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands;

a scoring input for receiving a first of the ratings from the manual reviewer of the mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands;

at least one electronic rating input for receiving second ones of the ratings of the mentions of ones of a plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands; and

a correlator that normalizes the rating by comparing the first of the ratings to the second ones of the ratings, and that correlates ones of the plurality of brands to a desired purchaser profile in accordance with the normalized rating.

2. The search engine of claim 1, wherein ones of the second ones of the ratings comprise automated ratings in accordance with a plurality of electronic scoring rules.

3. The search engine of claim 1, wherein said correlator improves a transaction rate.

4. The search engine of claim 1, further comprising a management engine that manages the first and second ones of the ratings.

5. The search engine of claim 4, wherein said management engine associates ones of the second ones of the ratings with expert ones of the manual reviewers, and converts ones of the manual reviewers providing the first ratings to experts in accordance with said correlator.

6. The search engine of claim 4, wherein said management engine grants privileges to ones of the manual reviewer.
7. The search engine of claim 4, wherein said management engine provides for modifications of at least one of the first rating and the second ones of the rating.
8. The search engine of claim 4, wherein said management engine trains ones of the manual reviewers.
9. The search engine of claim 1, wherein the normalization comprises a minimization of variability between the first and second ones of the ratings.
10. The search engine of claim 9, wherein ones of the second ones of the ratings comprise expert ratings.
11. The search engine of claim 1, wherein the normalization comprises an averaging.
12. The search engine of claim 1, wherein the normalization comprises an assessment of regularity of the mentions of ones of the plurality of keywords in proximity to ones of the electronic mentions of the respective ones of the plurality of brands.
13. The search engine of claim 1, wherein the normalization comprises an assessment of regularity of the mentions of ones of the plurality of keywords.
14. The search engine of claim 1, wherein the normalization comprises an assessment of regularity of the mentions of the respective ones of the plurality of brands.
15. The search engine of claim 1, wherein the normalization comprises a prioritization of the keywords.
16. The search engine of claim 1, wherein the normalization comprises a prioritization of the respective ones of the plurality of brands.
17. The search engine of claim 1, wherein the normalization comprises a statistical analysis.
18. The search engine of claim 1, wherein the normalization comprises an accounting of extenuating circumstances affecting the rating.

19. The search engine of claim 1, wherein the correlation comprises a convergence.

20. The search engine of claim 1, wherein the content reviewer comprises a graphical user interface.

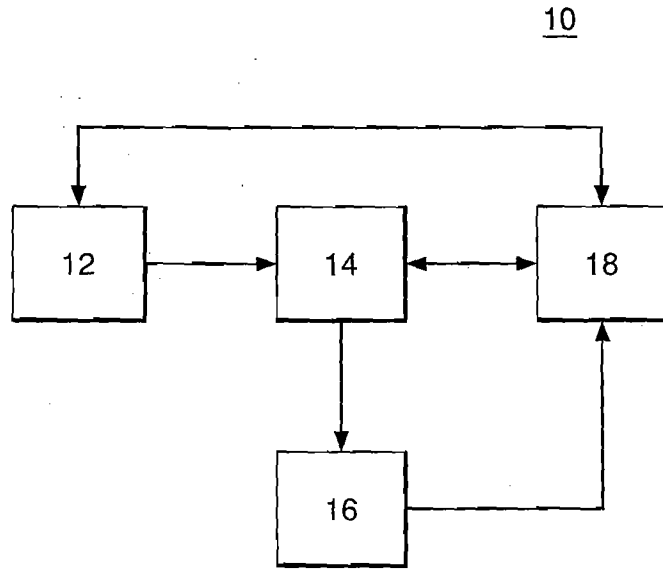


FIG. 1

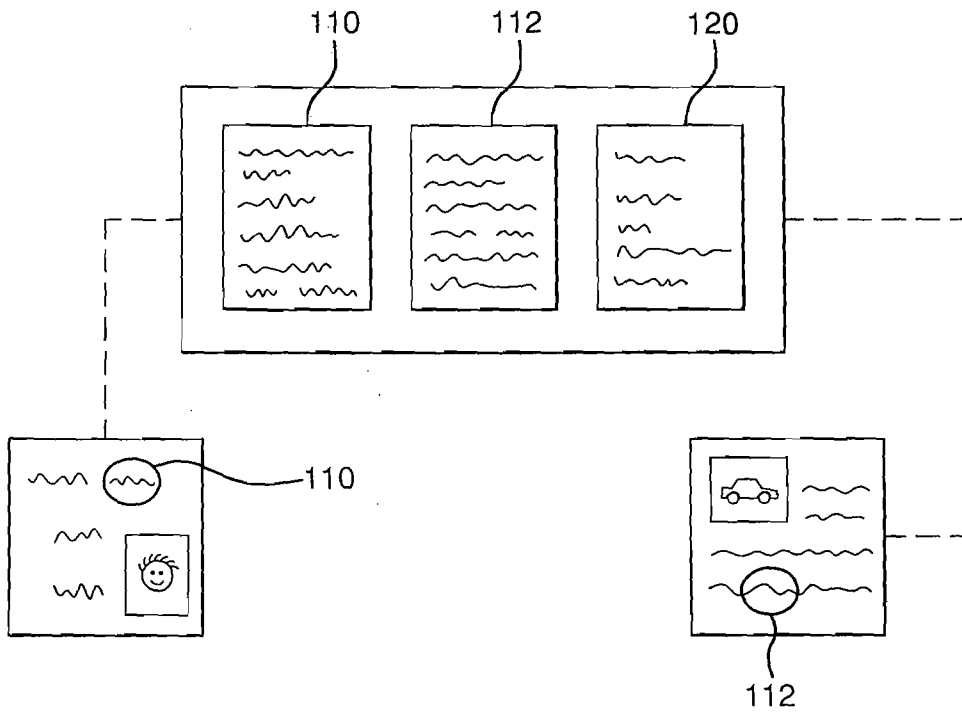


FIG. 2

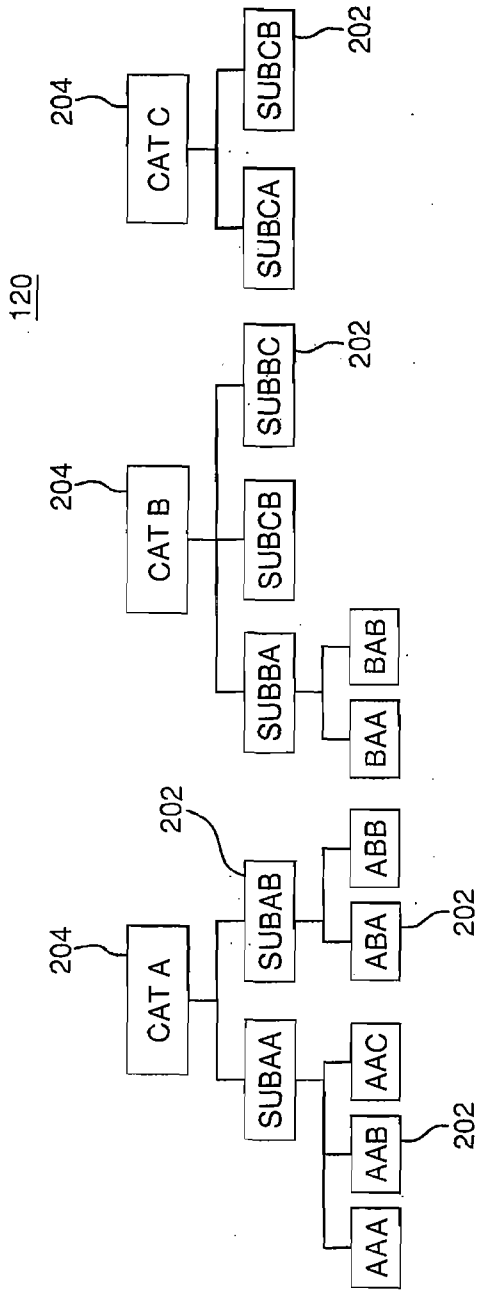


FIG. 3

CAT A	POSITIVE OR NEGATIVE OR NEUTRAL	STREAM	TRACKING METRICS
	OR N/A	BOOLEAN	

FIG. 4

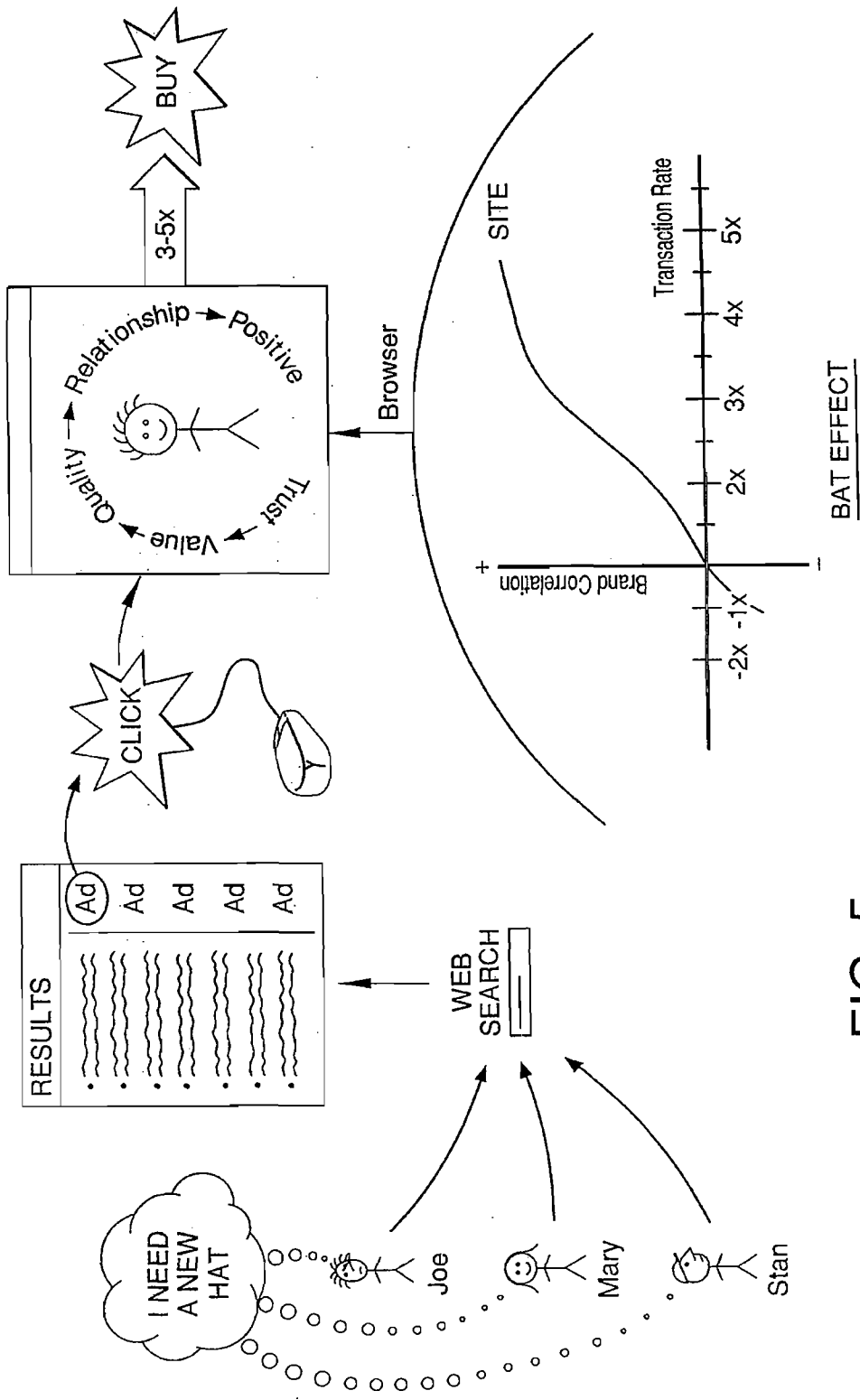


FIG. 5

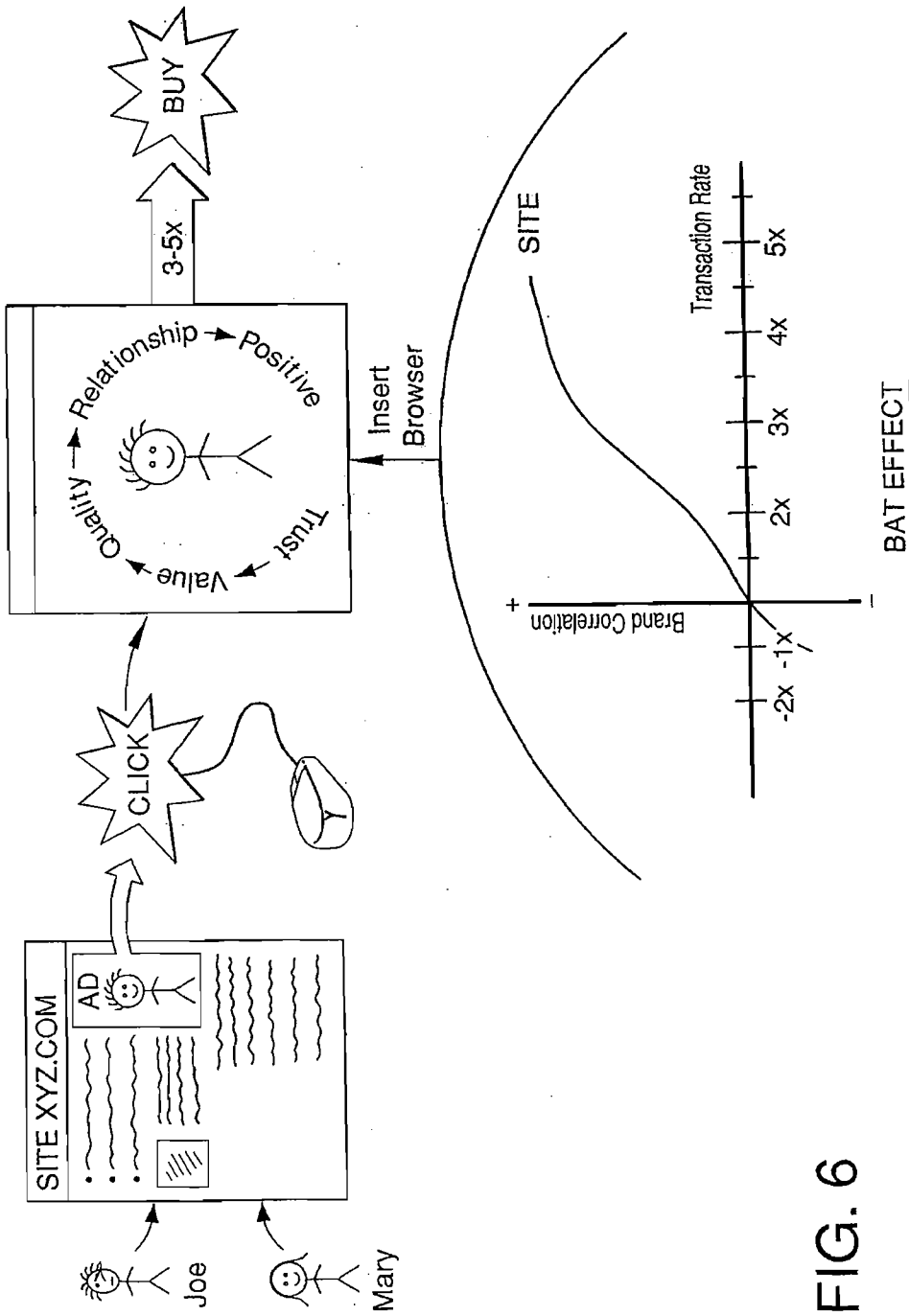


FIG. 6

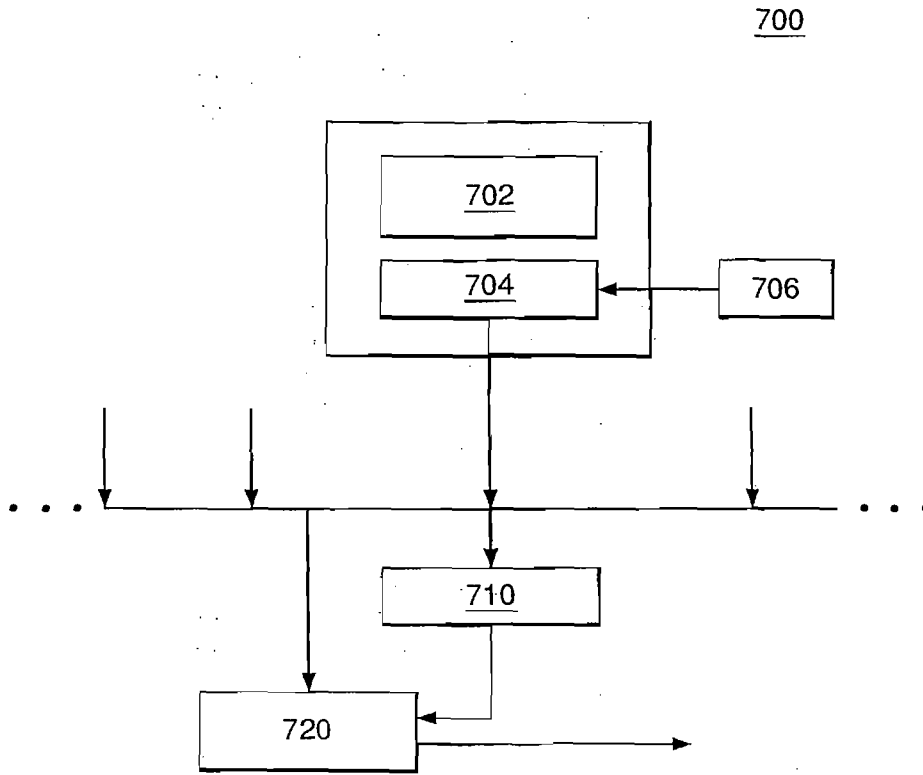


FIG. 7

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 09/63611

A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G06F 17/00 (2009.01) USPC - 706/55 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) USPC - 706/55 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC - 706/55, 934; 707/3, 104.1 (text search) Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWest (PGPB, USPT, EPAB, JPAB), Google, Search terms used: search, engin, web, crawl, brand, endorsement, normalize, rate, rating, keyword, key, word, manual, brand, affinity, purchase, profile		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X — Y Y A A A A A A	US 2004/0143600 A1 (Musgrove et al.) 22 July 2004 (22.07.2004), para [0006], [0010], [0052], [0057], [0069]-[0075], [0191], [0203]-[0212], [0240]-[0243] US 2008/0103886 A1 (Li et al.) 01 May 2008 (01.05.2008), para [0013] US 2007/0143345 A1 (Jones et al.) 21 June 2007 (21.06.2007), entire document US 2006/0129446 A1 (Ruhl et al.) 15 June 2006 (15.06.2006), entire document US 2004/0225647 A1 (Connelly et al.) 11 November 2004 (11.11.2004), entire document US 2006/0143158 A1 (Ruhl et al.) 29 June 2006 (29.06.2006), entire document US 2006/0041562 A1 (Paczkowski et al.) 23 February 2006 (23.02.2006), entire document US 2006/0218141 A1 (Tuttle et al.) 28 September 2006 (28.09.2006), entire document	1-7, 9-20 ----- 8 8 1-20 1-20 1-20 1-20 1-20 1-20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/>		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 17 December 2009 (17.12.2009)		Date of mailing of the international search report 05 MAR 2010
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201		Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774