

Exhibit 7

**UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF VIRGINIA
NORFOLK DIVISION**

I/P ENGINE, INC.,

Plaintiff,

v.

AOL, INC. et al.,

Defendants.

Civ. Action No. 2:11-cv-512

**DEFENDANT GOOGLE INC.'S FIRST SUPPLEMENTAL OBJECTIONS AND
RESPONSES TO PLAINTIFF I/P ENGINE, INC.'S FIRST SET OF
INTERROGATORIES (NOS. 2-10)**

Pursuant to Federal Rules of Civil Procedure 26 and 33, Defendant Google Inc. hereby further objects and responds in writing to I/P Engine, Inc.'s First Set of Interrogatories as served on November 7, 2011.

GENERAL OBJECTIONS

Google makes the following general objections to each and every definition, instruction, and interrogatory made in I/P Engine's First Interrogatories to Google. Each of these objections is incorporated into the Specific Objections set forth below, whether or not separately set forth therein. By responding to any of the interrogatories or failing to specifically refer to or specify any particular General Objection in response to a particular interrogatory, Google does not waive any of these General Objections, nor admit or concede the appropriateness of any purported interrogatory or any assumptions contained therein.

1. Nothing in these responses should be construed as waiving rights or objections that might otherwise be available to Google nor should Google's responses to any of these

interrogatories be deemed an admission of relevancy, materiality, or admissibility in evidence of the interrogatory or the response thereto.

2. Google objects to each interrogatory to the extent that it seeks the disclosure of information protected from disclosure by the attorney-client privilege, the attorney work product doctrine or any other applicable privilege or protection as provided by law. Google will not produce such privileged or protected information, and any inadvertent disclosure of any privileged or protected information should not be deemed a waiver of any privilege.

3. Google objects to each interrogatory, and to the definitions and instructions, to the extent it purports to impose upon Google obligations broader than, or inconsistent with, the Federal Rules of Civil Procedure or the Local Rules and Orders of this Court.

4. Google objects to each interrogatory, and to the definitions and instructions, to the extent that they are overbroad, vague and ambiguous, unduly burdensome and oppressive, in purporting to require Google to search facilities and inquire of employees other than those facilities and employees that could reasonably be expected to have responsive information, or produce information outside a relevant time period or unrelated to the asserted claims of the patent-in-suit. Google also will not produce information that is not in its possession, custody or control.

5. Google objects to each interrogatory to the extent it seeks information already in I/P Engine's possession or equally available to I/P Engine from other sources that are more convenient, less burdensome and/or less expensive.

6. Google objects to each interrogatory and to the definitions and instructions included therewith pursuant to Federal Rule of Civil Procedure 26(b)(2)(i) to the extent that it

purports to require the disclosure of information that is more readily available and/or more appropriately obtainable through other means of discovery.

7. Google objects to each interrogatory to the extent that it is compound and/or is comprised of subparts constituting more than one interrogatory, particularly in view of I/P Engine's instructions with respect to each "subpart" of each interrogatory as each subpart properly counts as separate interrogatories against the limit of interrogatories for I/P Engine in this case.

8. Google objects to each interrogatory, and to the definitions and instructions included therewith, to the extent they seek proprietary, trade secret or other confidential or competitively sensitive business information. Subject to Local Rule 26.2, Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

9. Google objects to each interrogatory, and to the definitions and instructions included therewith, to the extent that it purports to require Google to disclose private or personally-identifiable information of its users.

10. Google objects to each interrogatory, and to the definitions and instructions included therewith, to the extent that it purports to require Google to disclose information that is subject to any protective order, privacy interest, contractual obligation, or other confidentiality obligation owed to any third party.

11. Google objects to each interrogatory to the extent that such interrogatory prematurely seeks the production of information and documents in advance of the dates set by the Federal Rules of Civil Procedure, the Local Rules, or any orders entered by this Court.

12. Google objects to each interrogatory as premature and unduly burdensome to the extent that it seeks information likely to depend on construction of claim terms and/or expert analysis of the patent-in-suit, the deadlines for which have not yet been set.

13. Google objects to each interrogatory as premature and unduly burdensome to the extent that it seeks discovery regarding non-infringement of any claim(s) of the patent-in-suit for which I/P Engine has not provided a substantive contention that Google practices every element of such claim(s).

14. Google objects to each interrogatory as unduly burdensome to the extent it seeks information about every version or release of purportedly accused technology or functionality. The burden and expense associated with producing such information grossly outweighs its benefit and relevance.

15. Google objects to I/P Engine's definition of "Google" as overly broad and unduly burdensome, to the extent that includes current and past offices, directors, agents, employees, consultants, attorneys, and others acting on Google's behalf.

16. Google objects to I/P Engine's definitions of the terms "Identify," "Describe," and "Communication" as vague, overbroad, unduly burdensome, and oppressive.

17. Google objects to I/P Engine's definitions of the term "Search Technology incorporating User Feedback," as vague, overbroad, unduly burdensome, and oppressive. In particular, it is not clear what "considering how well search results match the user's search query" and "using data relating to other users' feedback to the search result" refer to. To the extent it is meant to refer to the accused products as defined elsewhere in I/P Engine's requests, Google objects on the ground that it cannot be expected to identify every "search system" any part of which "utilize[s] a calculation, algorithm, value or score that uses, in some way, user

feedback to determine search results" regardless of relevance. The burden and expense associated with producing such information grossly outweighs its benefit and relevance.

19. Google objects to I/P Engine's definitions of the term "Relevance Score," as vague, overbroad, unduly burdensome, and oppressive. In particular, it is not clear what "any variable, score, and/or value" and "systems utilizing a calculation, algorithm, value or score" refer to. To the extent it is meant to refer to systems other than Google's AdWords system and AdSense for Search system, Google objects on the ground that it cannot be expected to identify every system of which any part of which meets I/P Value's broad defining factors, regardless of relevance. The burden and expense associated with producing such information grossly outweighs its benefit and relevance.

20. Google objects to each interrogatory, definition, and instruction to the extent the burden or expense of the proposed discovery outweighs its likely benefit, considering the needs of the case, the amount in controversy, the importance of the issues at stake in the action, and the importance of the discovery in resolving the issues.

21. Google responds to these interrogatories based upon its current understanding and reserves the right to supplement its responses if any additional information is identified at a later time and to make any additional objections that may become apparent.

22. Each of Google's responses to these interrogatories are made subject to and without waiving, limiting, or intending to waive:

- A. each of the above-stated general objections and reservations;
- B. the right to object on the grounds of competency, privilege, relevancy, or materiality, or any other proper grounds, to the use of the documents or information, for any

purpose, in whole or in part, in any subsequent step or proceeding in this action or any other action;

C. the right to object on any and all grounds, at any time, to other discovery requests involving or relating to the subject matter of the present litigation; and

D. the right at any time to revise, correct, and add to or clarify any of the responses herein.

23. At any point, by responding to these interrogatories, Google does not waive or intend to waive, but expressly reserves, all of its statements, reservations, and objections, both general and specific, set forth in these responses, even though Google may in some instances disclose information over the statements, reservations, and objections contained herein.

STATEMENT ON SUPPLEMENTATION

Google's investigation in this action is ongoing, and Google reserves the right to rely on and introduce information in addition to any information provided herein at the trial of this matter or in other related proceedings. Google has yet to receive complete discovery responses from I/P Engine. In addition, I/P Engine has yet to identify in a coherent way how it contends Google infringes the asserted claims of the Patents-in-Suit. Google anticipates that facts it learns later in the litigation may be responsive to one or more of the interrogatories and Google reserves its right to supplement these interrogatories at appropriate points throughout this litigation without prejudice and/or to otherwise make available to I/P Engine such information. Google also reserves the right to change, modify or enlarge the following responses based on additional information, further analysis, and/or in light of events in the litigation such as rulings by the

Court. Google reserves the right to rely on or otherwise use any such amended response for future discovery, trial or otherwise.

SPECIFIC OBJECTIONS AND RESPONSES

Google expressly incorporates the above objections as though set forth fully in response to each of the following individual interrogatories, and, to the extent that they are not raised in the particular response, Google does not waive those objections.

INTERROGATORY NO. 2

Identify, using the specific model number, version number, edition number and/or release number, as well as internal Google project name and corresponding software release(s), each Google system using a Relevance Score that from January 1, 2002 to the present was used (commercially and/or tested), sold, or offered for sale in the United States, imported into the United States and/or exported out of the United States, or that are intended for use in the United States, by or on behalf of Google.

RESPONSE TO INTERROGATORY NO. 2:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is compound, overbroad and unduly burdensome, particularly to the extent that it seeks information from January 1, 2002 to the present and to the extent that it is not confined to those products that are reasonably accused in this case; (ii) it is vague and ambiguous with respect to the terms "Relevance Score," for the reasons set forth in the General Objections above, "used," and "intended for use;" and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this

interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that Google does not infringe any claim of the '420 or '664 Patents. Google further responds that as best Google can understand this interrogatory, Google AdWords does not use a "Relevance Score," as Plaintiff has defined that term. More specifically, Google AdWords does not use "the relevance of the content of the search results to the user search query including, but not limited to, the landing page or the advertisement text to the user search" in computing which advertisements are to be displayed; AdWords compares the search query to the keywords selected by the advertiser. Those keywords are not part of "the content of the search results. Furthermore, the incorporation of "users' responses to the search result" described in the '420 and '664 patents is through a collaborative filtering system. Google AdWords does not incorporate collaborative filtering, and Plaintiff has not contended otherwise.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 2, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 2:

Google has agreed to respond to this Interrogatory as if it referenced "Quality Score," instead of "Relevance Score." In doing so, Google does not, however, agree that "Relevance Score" means the same as "Quality Score" and stands by its prior response as to that point and that it does not have a "Relevance Score" as Plaintiff previously defined that term.

Subject to Google's foregoing specific and general objections, AdWords uses a Quality Score as part of its determination of the ordering of advertisements in response to a user query.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 2, including during expert discovery.

INTERROGATORY NO. 3

Identify all representatives of Google or other persons or entities on behalf of Google who have actively marketed or sold, or are currently actively marketing or selling, the use of each Google system identified in response to Plaintiff's Interrogatory No. 2.

RESPONSE TO INTERROGATORY NO. 3:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it seeks information from January 1, 2002 to the present, to the extent that it is not confined to those products that are reasonably accused in this case, and to the extent that it is not confined to a reasonable number or category of individuals; (ii) it is vague and ambiguous with respect to the terms "other persons or entities on behalf of Google;" and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence.

Subject to the foregoing general and specific objections, because no Google product uses a "Relevance Score," as Plaintiff has defined that term, no representatives of Google or other persons or entities on behalf of Google have marketed or sold a Google product "using a Relevance Score" as Plaintiff has defined that term. Google reserves its right to supplement,

revise or render more specific its responses to Interrogatory No. 3, including during expert discovery..

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 3:

Google has agreed to respond to this Interrogatory as if Interrogatory No. 2 referenced “Quality Score,” instead of “Relevance Score.” In doing so, Google does not, however, agree that “Relevance Score” means the same as “Quality Score” and stands by its prior response as to that point and that it does not have a “Relevance Score” as Plaintiff previously defined that term.

Subject to Google’s foregoing specific and general objections, Google identifies Jonathan Alferness as being involved in the marketing of AdWords. Google has sales teams regarding AdWords, but specifying the identity of all employees on such teams is unduly burdensome and has no cognizable relevance.

INTERROGATORY NO. 4

For each Google system identified in response to Plaintiff's Interrogatory No. 2, describe Google's corporate policy regarding indemnification, its rights and obligations under indemnification, its corporate policy regarding obtaining insurance for patent infringement, and its rights and obligations under any obtained insurance agreement regarding patent infringement.

RESPONSE TO INTERROGATORY NO. 4:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it seeks information from January 1, 2002 to the present and to the extent that it is not confined to those products that are reasonably accused

in this case; (ii) it is vague and ambiguous with respect to the term "corporate policy" and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that because no Google product uses a "Relevance Score," as Plaintiff has defined that term, Google has no policies or agreements regarding any such products.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 4, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 4:

Google has agreed to respond to this Interrogatory as if Interrogatory No. 2 referenced "Quality Score," instead of "Relevance Score." In doing so, Google does not, however, agree that "Relevance Score" means the same as "Quality Score" and stands by its prior response as to that point and that it does not have a "Relevance Score" as Plaintiff previously defined that term.

Subject to Google's foregoing specific and general objections, Google further states that to the best of its knowledge Google does not have a "corporate policy regarding indemnification" for Google AdWords, or a "corporate policy regarding obtaining insurance for patent infringement" for Google AdWords.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 4, including during expert discovery.

INTERROGATORY NO. 5

For each Google system identified in response to Plaintiff's Interrogatory No. 2, describe the algorithm or algorithms used to determine which advertisements are displayed in response to a user query including, but not limited to, the calculation, algorithm, value or score of "Quality Score."

RESPONSE TO INTERROGATORY NO. 5:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it seeks information from January 1, 2002 to the present and to the extent that it is not confined to those products that are reasonably accused in this case; (ii) it is vague and ambiguous; and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, because no Google product uses a "Relevance Score," as Plaintiff has defined that term, Google has no algorithm as described in this Interrogatory.

Google does use what is referred to externally as "Quality Scores" in AdWords, but no Quality Score is a "Relevance Score," as Plaintiff has defined that term.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 5, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 5:

Google has agreed to respond to this Interrogatory as if Interrogatory No. 2 referenced “Quality Score,” instead of “Relevance Score.” In doing so, Google does not, however, agree that “Relevance Score” means the same as “Quality Score” and stands by its prior response as to that point and that it does not have a “Relevance Score” as Plaintiff previously defined that term.

Subject to Google’s foregoing specific and general objections, the Quality Score or pCTR (predicted click-through rate) generated by the Smart Ads system is the probability that displaying a particular ad in response to a particular query at a particular time will result in a click. This Quality Score considers many factors, which could include such things as how often end-users have previously clicked on ads of the advertiser, the country where the query was entered, the number of words in the query, the language of the query, and ad title.

Smart Ads keeps logs of how various advertisements performed in previous ad opportunities, *i.e.*, whether those ads were clicked on.

Smart Ads computes a number of statistics corresponding to the effects of various parameters considered by the system, either alone or in combination with other parameters. For instance, Smart Ads may determine that advertisements which link to the "nfl.com" domain have a 15% greater chance of being clicked on when searchers are in the United States, and compute separate statistics for how "nfl.com" does when searchers are from Australia. Smart Ads uses attribute templates to determine how to compute statistics. Each attribute template contains one or more feature templates corresponding to the data being analyzed for each statistic. Once the parameters of a particular problem are known, Smart Ads fills in the feature

templates with the corresponding features to derive the attribute. Smart Ads then looks up a statistic on how the click-through rate was impacted under those parameters, and may use that statistic to help compute Quality Score or pCTR. To compute Quality Score, Smart Ads begins with the base probability of an advertisement being clicked on in the Google system. Smart Ads then converts the probability to odds. Smart Ads then plugs features into each of the attribute templates to create attributes. Smart Ads pulls out the odds multipliers associated with each derived attribute, and multiplies them all together to get the final odds. The final odds value is then converted back into a probability. A Quality Score is then used by the AdWords system as one of the inputs to an auction to determine the ordering of the advertisements.

Google reserves its right to supplement its response to this Interrogatory.

INTERROGATORY NO. 6

Identify and describe each basis for Google's contention that it is not a direct infringer including, but not limited to, all facts, documents, communications and/or events which Google contends are pertinent thereto, and identify the persons having the most knowledge of such facts, documents, communications and/or events.

RESPONSE TO INTERROGATORY NO. 6:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it is not confined to those products that are reasonably accused in this case; (ii) it is vague and ambiguous with respect to the phrase "all facts, documents, communications and/or events;" and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google

further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that Google does not infringe any claim of the '420 or '664 Patents. Google further responds that in accordance with Federal Rule of Civil Procedure 33(d), all or part of the non-objectionable discovery sought may be obtained from documents that will be produced. Google will rely on documents produced in this action that identify how the accused functions operate and will identify those documents to the extent reasonable after the time they are produced. Google will supplement its response to Interrogatory No. 6 to reference relevant documents to the extent reasonable.

Google further responds that the accused products do not meet at least the following limitations in the asserted claims:

'420 Patent, Claim 10:

- "a system for scanning a network to make a demand search for informons relevant to a query from an individual user"
- "a content-based filter system for receiving the informons from the scanning system and for filtering the informons on the basis of applicable content profile data for relevance to the query"
- "a feedback system for receiving collaborative feedback data from system users relative to informons considered by such users"
- "the filter system combining pertaining feedback data from the feedback system with the content profile data in filtering each informon for relevance to the query"

'420 Patent, Claim 14:

- "The system of claim 10 wherein the collaborative feedback data comprises passive feedback data"

'420 Patent, Claim 15:

- "The system of claim 14 wherein the passive feedback data is obtained by passively monitoring the actual response to a proposed informon."

'420 Patent, Claim 25:

- "scanning a network to make a demand search for informons relevant to a query from an individual user"
- "receiving the informons in a content-based filter system from the scanning system and filtering the informons on the basis of applicable content profile data for relevance to the query"
- "receiving collaborative feedback data from system users relative to informons considered by such users"
- "combining pertaining feedback data with the content profile data in filtering each informon for relevance to the query"

'420 Patent, Claim 27:

- "The method of claim 25 wherein the collaborative feedback data provides passive feedback data"

'420 Patent, Claim 28:

- "The method of claim 27 wherein the passive feedback data is obtained by passively monitoring the actual response to a proposed informon"

'664 Patent, Claim 1:

- "a scanning system for searching for information relevant to a query associated with a first user in a plurality of users"
- "a feedback system for receiving information found to be relevant to the query by other users"
- "a content-based filter system for combining the information from the feedback system with the information from the scanning system and for filtering the combined information for relevance to at least one of the query and the first user"

'664 Patent, Claim 5:

- "The search system of claim 1 wherein the filtered information is an advertisement"

'664 Patent, Claim 6:

- "The search system of claim 1 further comprising an information delivery system for delivering the filtered information to the first user"

'664 Patent, Claim 21:

- "The search system of claim 1 wherein the content-based filter system filters the combined information relevant to both the query and the first user"

'664 Patent, Claim 22:

- "The search system of claim 1 wherein the content-based filter system filters by extracting features from the information"

'664 Patent, Claim 26:

- "searching for information relevant to a query associated with a first user in a plurality of users"
- "receiving information found to be relevant to the query by other users"
- "combining the information found to be relevant to the query by other users with the searched information"
- "content-based filtering the combined information for relevance to at least one of the query and the first user"

'664 Patent, Claim 28:

- "The method of claim 26 further comprising the step of delivering the filtered information to the first user"

'664 Patent, Claim 38:

- "The method of claim 26 wherein the searching step comprises scanning a network in response to a demand search for the information relevant to the query associated with the first user"

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 6 as its investigation continues, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 6:

Subject to the foregoing general and specific objections and despite the fact that Plaintiff has not supplemented its response to Google's Interrogatory No. 7 in order to provide detailed infringement contentions, Google directs Plaintiff to the following documents previously produced by Google that may be pertinent to the issue of direct infringement, although Google cannot be certain of the pertinence of these documents at this point in the litigation because of deficiencies in Plaintiff's infringement contentions for which Plaintiff has yet to supplement despite Google's extensive production of technical documents: G-IPE-0000052 - G-IPE-0000058, G-IPE-0000105 - G-IPE-0000111, G-IPE-0000124 - G-IPE-0000128, G-IPE-0000179 - G-IPE-0000186, G-IPE-0000206 - G-IPE-0000215, G-IPE-0000224 - G-IPE-0000228, G-IPE-0000365 - G-IPE-0000375, G-IPE-0000382 - G-IPE-0000385, G-IPE-0000442 - G-IPE-0000474, G-IPE-0000546 - G-IPE-0000551, G-IPE-0000552 - G-IPE-0000566, G-IPE-0000689 - G-IPE-0000695, G-IPE-0000696 - G-IPE-0000699, G-IPE-0000762 - G-IPE-0000779, G-IPE-0000787 - G-IPE-0000792, G-IPE-0000838 - G-IPE-0000846, G-IPE-0000984 - G-IPE-0000988, G-IPE-0000989 - G-IPE-0000992, G-IPE-0000993 - G-IPE-0001003, G-IPE-0001045 - G-IPE-0001059, G-IPE-0001292 - G-IPE-0001301, G-IPE-0001309 - G-IPE-0001311, G-IPE-0001372 - G-IPE-0001379, G-IPE-0001382 - G-IPE-0001389, G-IPE-0001398 - G-IPE-0001409, G-IPE-0001417 - G-IPE-0001423, G-IPE-0001461 - G-IPE-0001465, G-IPE-0001467 - G-IPE-0001474, G-IPE-0001487 - G-IPE-0001499, G-IPE-0001500 - G-IPE-0001505, G-IPE-0001620 - G-IPE-0001627, G-IPE-0001656 - G-IPE-0001660, G-IPE-0001740 - G-IPE-0001743, G-IPE-0001744 - G-IPE-0001750, G-IPE-0001751 - G-IPE-0001756, G-IPE-0001831 - G-IPE-0001841, G-IPE-0001911 - G-IPE-0001963, G-IPE-0002008 - G-IPE-0002011, G-IPE-0002091 - G-IPE-0002100, G-IPE-0002113 - G-IPE-0002126, G-IPE-0002207 - G-IPE-0002212, G-IPE-0002243 - G-IPE-0002248, G-IPE-

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Google reserves its right to supplement its response to this Interrogatory.

INTERROGATORY NO. 7

Identify and describe each basis for Google's contention that it is not an indirect infringer, including its contention that it is not liable for infringement by inducement and that it is not a contributory infringer including, but not limited to, all facts, documents, communications and/or events which Google contends are pertinent thereto, and identify the persons having the most knowledge of such facts, documents, communications and/or events.

RESPONSE TO INTERROGATORY NO. 7:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it is not confined to those products that are reasonably accused in this case; (ii) it is vague and ambiguous with respect to the phrase "all facts, documents, communications and/or events;" and (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that Google does not directly infringe any claim of the '420 or '664 Patents and, accordingly, cannot indirectly infringe any claim of the '420 or '664 Patents. Google further responds that in accordance with Federal Rule of Civil Procedure 33(d), all or part of the non-objectionable discovery sought may be obtained from documents that will be produced. Google will rely on documents produced in this action that identify how the accused functions operate and will identify those documents to the extent reasonable after the time they are produced. Google will supplement its response to Interrogatory No. 7 to reference relevant documents to the extent reasonable.

Further, Plaintiff has not provided substantive contentions regarding indirect infringement beyond stating:

- Google, via its marketing materials and other publicly available sources, provides, sells, offers for sale, and/or promotes the infringing products, methods and systems of Google AdWords to its members of the Google Search Network, advertisers and/or end users that use the infringing Google AdWords....Based on these marketing materials and uses, Google intends for its members of the Google Search Network, advertisers and/or end users to use Google AdWords in an infringing manner. Thus, Google intends to cause infringement of the '420 and '664 patents. By making, using, providing, selling, and/or promoting its infringing Google AdWords, and by continuing to provide, sell, offer for sale, and/or promote its infringing Google AdWords, with the intention of causing at least some members of the Google Search Network, advertisers and/or end users to use Google AdWords in an infringing manner, Google actively and knowingly aids and abets infringement of the '420 and '664 patents and is liable under induced infringement. In addition, Google AdWords is a material part of the claimed invention of the '420 and '664 patents. Google AdWords is especially made or especially adapted for use with only infringing search engine systems and/or search systems. Furthermore, Google AdWords is not a staple article. Google AdWords is not a commodity of commerce and can only be used with infringing search engine systems and/or search systems. Google AdWords is also not suitable for substantial non-infringing uses. Therefore, Google is liable as a contributory infringer.
- Google, via its materials and other publicly available sources, provides, sells, offers for sale, and/or promotes the infringing products, methods and systems of Google

Search to its Search Partners and/or end users that use the infringing Google Search....Based on these materials and uses, Google intends for its Search Partners and/or end users to use Google Search in an infringing manner. Thus, Google intends to cause infringement of the '420 and '664 patents. Therefore, by making, using, providing, selling, and/or promoting its infringing Google Search, and by continuing to provide, sell, offer for sale, and/or promote its infringing Google Search, with the intention of causing at least some Search Partners and/or end users to use Google Search in an infringing manner, Google actively and knowingly aids and abets infringement of the '420 and '664 patents and is liable under induced infringement. In addition, Google Search is a material part of the claimed invention of the '420 and '664 patents. Google Search is especially made or especially adapted for use with only infringing search engine systems and/or search systems. Furthermore, Google Search is not a staple article. Google Search is not a commodity of commerce and can only be used with infringing search engine systems and/or search systems. Google Search is also not suitable for substantial non-infringing uses. Therefore, Google is liable as a contributory infringer.

Plaintiff has not shown how it contends that Google encouraged direct infringement by any third party, had the specific intent to encourage such infringement, or had knowledge of any such infringement. Plaintiff also has failed to provide specific allegations detailing how it contends that Google sold or offered to sell its products with the intention of causing third parties to use such products in an infringing manner. Plaintiff has failed to provide specific allegations detailing how it contends that Google induced infringement or specific allegations that Google had knowledge that any alleged induced acts constituted patent infringement. Furthermore, Plaintiff asserts that "Google AdWords is also not suitable for substantial non-infringing uses," but provides no evidence or analysis in support. Again, Google cannot rebut allegations that have not been made.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 7 as its investigation continues, including during expert discovery

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 7:

Subject to the foregoing general and specific objections and despite the fact that Plaintiff has not supplemented its response to Google's Interrogatory No. 7 in order to provide detailed

infringement contentions including reference to the technical documents produced by Google, Google directs Plaintiff to the following documents previously produced by Google that may be pertinent to the issue of indirect infringement, although Google cannot be certain of the pertinence of these documents at this point in the litigation because of deficiencies in Plaintiff's infringement contentions: G-IPE-0000052 - G-IPE-0000058, G-IPE-0000105 - G-IPE-0000111, G-IPE-0000124 - G-IPE-0000128, G-IPE-0000179 - G-IPE-0000186, G-IPE-0000206 - G-IPE-0000215, G-IPE-0000224 - G-IPE-0000228, G-IPE-0000365 - G-IPE-0000375, G-IPE-0000382 - G-IPE-0000385, G-IPE-0000442 - G-IPE-0000474, G-IPE-0000546 - G-IPE-0000551, G-IPE-0000552 - G-IPE-0000566, G-IPE-0000689 - G-IPE-0000695, G-IPE-0000696 - G-IPE-0000699, G-IPE-0000762 - G-IPE-0000779, G-IPE-0000787 - G-IPE-0000792, G-IPE-0000838 - G-IPE-0000846, G-IPE-0000984 - G-IPE-0000988, G-IPE-0000989 - G-IPE-0000992, G-IPE-0000993 - G-IPE-0001003, G-IPE-0001045 - G-IPE-0001059, G-IPE-0001292 - G-IPE-0001301, G-IPE-0001309 - G-IPE-0001311, G-IPE-0001372 - G-IPE-0001379, G-IPE-0001382 - G-IPE-0001389, G-IPE-0001398 - G-IPE-0001409, G-IPE-0001417 - G-IPE-0001423, G-IPE-0001461 - G-IPE-0001465, G-IPE-0001467 - G-IPE-0001474, G-IPE-0001487 - G-IPE-0001499, G-IPE-0001500 - G-IPE-0001505, G-IPE-0001620 - G-IPE-0001627, G-IPE-0001656 - G-IPE-0001660, G-IPE-0001740 - G-IPE-0001743, G-IPE-0001744 - G-IPE-0001750, G-IPE-0001751 - G-IPE-0001756, G-IPE-0001831 - G-IPE-0001841, G-IPE-0001911 - G-IPE-0001963, G-IPE-0002008 - G-IPE-0002011, G-IPE-0002091 - G-IPE-0002100, G-IPE-0002113 - G-IPE-0002126, G-IPE-0002207 - G-IPE-0002212, G-IPE-0002243 - G-IPE-0002248, G-IPE-0002302 - G-IPE-0002308, G-IPE-0002428 - G-IPE-0002439, G-IPE-0002441 - G-IPE-0002444, G-IPE-0002458 - G-IPE-0002467, G-IPE-0002473 - G-IPE-0002477, G-IPE-0002500 - G-IPE-0002504, G-IPE-0002558 - G-IPE-0002566, G-IPE-0002567 - G-IPE-0002570, G-IPE-0007972 - G-IPE-0008050, G-IPE-0009207 - G-IPE-

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Google reserves its right to supplement its response to this Interrogatory.

INTERROGATORY NO. 8

Identify and describe each basis for Google's contention that the claims of the '420 and '664 Patents are invalid including, but not limited to, all facts, dates, documents, communications and/or events, including prior art, which Google contends are pertinent thereto, and identify the persons having the most knowledge of such facts, dates, documents, communications and/or events.

RESPONSE TO INTERROGATORY NO. 8:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome; (ii) it is vague and ambiguous with respect to the phrase "all facts, dates, documents, communications and/or events;" (iii) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information; and (iv) it is compound and/or is comprised of subparts constituting more than one interrogatory in that it seeks information about '420 and '664 Patents. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that in accordance with Federal Rule of Civil Procedure 33(d), all or part of the non-objectionable discovery sought may be obtained from documents that will be produced. Google will rely on documents produced in this action and will identify those documents to the extent reasonable

after the time they are produced. Google will supplement its response to Interrogatory No. 8 to reference relevant documents to the extent reasonable.

Google further responds that the following references, either alone or in conjunction with the knowledge of one of skill in the art, render one or more of the asserted claims invalid:

- "Content-Based, Collaborative Recommendation" by Balabanovic et al.
- "Feature-based and Clique-based User Models for Movie Selection: A Comparative Study" by Alspector et al.
- "Using Collaborative Filtering to Weave an Information Tapestry" by Goldberg et al.
- "Architecting Personalized Delivery of Multimedia Information" by Loeb
- U.S. Patent No. 5,794,237 to Gore
- U.S. Patent No. 5,835,087 to Herz
- U.S. Patent No. 5,855,015 to Shoham
- U.S. Patent No. 6,202,058 to Rose
- U.S. Patent No. 5,724,567 to Rose et al.
- U.S. Patent No. 6,006,218 to Breese et al.
- U.S. Patent No. 6,421,675 to Ryan et al.
- U.S. Patent No. 5,963,940 to Liddy et al.

Google further asserts that the asserted claims of the '420 and '664 patent, as apparently interpreted by Plaintiff, are invalid for lack of enablement and written description. In particular, neither patent describes or enables using collaborative filtering or any other form of feedback on a demand search. Rather, the patents only describe and enable using collaborative filtering with persistent or "wire" search results.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 8, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 8:

Subject to the foregoing general and specific objections, Google identifies the following documents previously produced by Google as showing that the asserted claims from the '420 and '664 patents are invalid: G-IPE-0217615 - G-IPE-0217641, G-IPE-0217642 - G-IPE-0217648, G-IPE-0217649 - G-IPE-0217672, G-IPE-0217673 - G-IPE-0217683, G-IPE-0217684 - G-IPE-0217693, G-IPE-0217694 - G-IPE-0217708, G-IPE-0217709 - G-IPE-0217756, G-IPE-0217757 - G-IPE-0217770, G-IPE-0217771 - G-IPE-0217780, G-IPE-0217781 - G-IPE-0217796, G-IPE-0217797 - G-IPE-0217813, G-IPE-0217814 - G-IPE-0217870, G-IPE-0217871 - G-IPE-0217956, G-IPE-0217957 - G-IPE-0217999, and G-IPE-0218000 - G-IPE-0218013.

Google served its Preliminary Invalidity Contentions on January 24, 2012. Google hereby incorporates those Contentions by reference and submits that its response to this Interrogatory also may be derived from those disclosures. Google reserves the right to amend and/or supplement its invalidity contentions if and when further information becomes available.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 8, including during expert discovery.

INTERROGATORY NO. 9

Identify any system, and when it was developed, that Google intends to rely upon in this litigation as a non-infringing alternative to each Google system identified in response to Interrogatory No. 2 including, but not limited to, all facts, documents, communications and/or events which Google contends are pertinent thereto, and identify the persons having the most knowledge of such facts, documents, communications and/or events.

RESPONSE TO INTERROGATORY NO. 9:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome, particularly to the extent that it seeks information from January 1, 2002 to the present and to the extent that it is not confined to those products that are reasonably accused in this case; (ii) it is vague and ambiguous with respect to the phrase "all facts, documents, communications and/or events;" (iii) it is compound and/or is comprised of subparts constituting more than one interrogatory; (iv) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence; and (v) it is premature in given the vague nature of I/P Engine's infringement contentions to date. Google further objects to this interrogatory on the ground that it seeks proprietary, trade secret or other confidential or competitively sensitive business information. Google will only produce such relevant, non-privileged information subject to adequate protections for Google's confidential, trade secret and/or proprietary business or technical information via a protective order entered by the Court in this action.

Subject to the foregoing general and specific objections, Google responds that Google does not infringe any claim of the '420 or '664 Patents. Google further responds that in accordance with Federal Rule of Civil Procedure 33(d), all or part of the non-objectionable discovery sought may be obtained from documents that will be produced. Google reserves the right to supplement this interrogatory as its investigation continues, including after Plaintiff sets forth its allegations of infringement and identifies the claims of the '420 and '664 Patents that it intends to assert.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 9, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 9:

Subject to Google’s foregoing specific and general objections, Google has agreed to respond to this Interrogatory as if Interrogatory No. 2 referenced “Quality Score,” instead of Relevance Score.” In doing so, Google does not, however, agree that “Relevance Score” means the same as “Quality Score,” and stands by its prior response on that point. Google directs Plaintiff to the following documents which were previously produced by Google that may be pertinent to the issue of non-infringing alternatives, although Google cannot be certain of the pertinence of these documents at this point in the litigation because of deficiencies in Plaintiff’s infringement contentions including Plaintiff’s failure to supplement its contentions to account for Google’s production of technical documents: G-IPE-0000052 - G-IPE-0000058, G-IPE-0000105 - G-IPE-0000111, G-IPE-0000124 - G-IPE-0000128, G-IPE-0000179 - G-IPE-0000186, G-IPE-0000206 - G-IPE-0000215, G-IPE-0000224 - G-IPE-0000228, G-IPE-0000365 - G-IPE-0000375, G-IPE-0000382 - G-IPE-0000385, G-IPE-0000442 - G-IPE-0000474, G-IPE-0000546 - G-IPE-0000551, G-IPE-0000552 - G-IPE-0000566, G-IPE-0000689 - G-IPE-0000695, G-IPE-0000696 - G-IPE-0000699, G-IPE-0000762 - G-IPE-0000779, G-IPE-0000787 - G-IPE-0000792, G-IPE-0000838 - G-IPE-0000846, G-IPE-0000984 - G-IPE-0000988, G-IPE-0000989 - G-IPE-0000992, G-IPE-0000993 - G-IPE-0001003, G-IPE-0001045 - G-IPE-0001059, G-IPE-0001292 - G-IPE-0001301, G-IPE-0001309 - G-IPE-0001311, G-IPE-0001372 - G-IPE-0001379, G-IPE-0001382 - G-IPE-0001389, G-IPE-0001398 - G-IPE-0001409, G-IPE-0001417 - G-IPE-0001423, G-IPE-0001461 - G-IPE-0001465, G-IPE-0001467 - G-IPE-0001474, G-IPE-0001487 - G-IPE-0001499, G-IPE-0001500 - G-IPE-0001505, G-IPE-0001620 - G-IPE-0001627, G-IPE-0001656 - G-IPE-

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Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 9, including during expert discovery.

INTERROGATORY NO. 10

Identify when and under what circumstances Google first became aware of the existence of the '420 or '664 Patents, and describe what action was taken by Google, including describing any subsequent reviews, studies, analyses or examinations of the '420 or '664 Patents, their scope, or their claims, including the date, author and recipients of such reviews, studies, analyses or examinations.

RESPONSE TO INTERROGATORY NO. 10:

Google incorporates here in response to this interrogatory its General Objections above by this reference. Google objects to this interrogatory on the grounds that: (i) it is overbroad and unduly burdensome; (ii) it is vague and ambiguous with respect to the phrase "aware of the existence of the '420 or '664 Patents;" (iii) it is compound and/or is comprised of subparts constituting more than one interrogatory particularly to the extent that it seeks information about two patents; and (iv) it seeks information that is irrelevant, immaterial or not reasonably calculated to lead to the discovery of admissible evidence. Google further objects to this interrogatory on the ground that it seeks privileged information and/or attorney work product.

Google will only produce such relevant, non-privileged information. Subject to the foregoing general and specific objections, Google responds that, while its investigation remains ongoing, at this time Google does not believe it was aware of either the '420 or '664 patents before this case was filed.

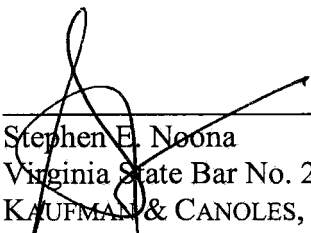
Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 10, including during expert discovery.

SUPPLEMENTAL RESPONSE TO INTERROGATORY NO. 10:

Subject to Google's foregoing specific and general objections, Google responds that the '420 Patent was identified in a January 17, 2008 office action from the United States Patent and Trademark Office concerning Google Application No. 10/690,328, which cited the '420 Patent as prior art of record not relied upon, but still considered pertinent to the applicant's disclosure. Google, however, did not have actual knowledge of the contents of the '420 Patent at that time. Google first acquired knowledge of the content of the '420 Patent on or around September 15, 2011.

Google reserves its right to supplement, revise or render more specific its responses to Interrogatory No. 10, including during expert discovery.

DATED: February 13, 2012



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CERTIFICATE OF SERVICE

I hereby certify that on February 13, 2012, I will serve the foregoing by electronic mail to the following:

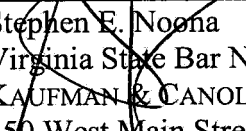
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