

Exhibit A

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	90009991		
Filing Date	2012-05-24		
First Named Inventor	Andrew K. LANG		
Art Unit	3992		
Examiner Name	J. S. Proctor		
Attorney Docket Number	688465-1RX		

CERTIFICATION STATEMENT

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

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

OR

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

- See attached certification statement.
- The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

SIGNATURE

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

Signature	/John D. Simmons/	Date (YYYY-MM-DD)	2013-07-03
Name/Print	John D. Simmons	Registration Number	52225

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

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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	Attorney Docket Number	688465-1RX		

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/J.P./	1	6185558	B1	2001-02-06	Bowman, et al.	
/J.P./	2	6421675	B1	2002-07-16	Ryan, et al.	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
/J.P./	1	BALABANOVIC, MARKO et al., "Fab: Content-Based, Collaborative Recommendation," Communications of the ACM, March 1997, pp. 66-72, Vol. 40, No. 3.	<input type="checkbox"/>
/J.P./	2	Defendant's Preliminary Invalidity Contentions and Exhibits A-1 through A-6, January 24, 2012	<input type="checkbox"/>
/J.P./	3	Report of Defendants' Expert Lyle H. Ungar, Ph.D., Concerning Invalidity of Claims 10, 14, 15, 25, 27, and 28 of U.S. Patent No. 6,314,420 and Claims 1, 5, 6, 21, 22, 26, 28, and 38 of U.S. Patent No. 6,775,664 and Exhibits A-1 through A-7 and C, July 25, 2012	<input checked="" type="checkbox"/>
/J.P./	4	Supplemental Report of Defendants' Expert Lyle H. Ungar, Ph.D., Concerning Invalidity of Claims 10, 14, 15, 25, 27, and 28 of U.S. Patent No. 6,314,420 and Claims 1, 5, 6, 21, 22, 26, 28, and 38 of U.S. Patent No. 6,775,664, August 24, 2012	<input checked="" type="checkbox"/>
/J.P./	5	Memorandum in Support of Defendants' Motion for Summary Judgment (Redacted) in Civ. Action No. 2:11-cv-512-RAJ, September 12, 2012	<input type="checkbox"/>
/J.P./	6	I/P Engine, Inc.'s Opposition to Defendants' Motion for Summary Judgment (Redacted) in Civ. Action No. 2:11-cv-512-RAJ, September 26, 2012	<input type="checkbox"/>
/J.P./	7	Reply Memorandum in Support of Defendants' Motion for Summary Judgment (Redacted) in Civ. Action No. 2:11-cv-512-RAJ, October 2, 2012	<input type="checkbox"/>
/J.P./	8	Order that Defendants' Summary Judgment is Denied in Civ. Action No. 2:11-cv-512-RAJ, October 3, 2012	<input type="checkbox"/>
/J.P./	9	Memorandum Opinion and Order on claim construction in Civ. Action No. 2:11-cv-512-RAJ, June 15, 2012	<input type="checkbox"/>
/J.P./	10	Memorandum Order in Civ. Action No. 2:11-cv-512-RAJ, November 20, 2012	<input type="checkbox"/>

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	11	Jaime Carbonell Validity Trial Presentation in Civ. Action No. 2:11-cv-512-RAJ,	<input type="checkbox"/>
	12	Lyle Ungar Invalidity Trial Presentation in Civ. Action No. 2:11-cv-512-RAJ,	<input type="checkbox"/>
/J.P./	13	November 6, 2012 Jury Verdict Form in Civ. Action No. 2:11-cv-512-RAJ	<input type="checkbox"/>
/J.P./	14	HULL, DAVID A. et al., "Method Combination for Document Filtering," SIGIR '96 Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval Pages 279-287, 1996.	<input type="checkbox"/>
/J.P./	15	LEWIS, DAVID D., "The TREC-4 Filtering Track," The Fourth Text Retrieval Conference (TREC-4), National Institute of Science & Technology, Gaithersburg, MD, 1996, pp. 165-180.	<input type="checkbox"/>

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EXAMINER SIGNATURE

Examiner Signature	/Jason Proctor/	Date Considered	04/26/2013
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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



US006314420B1

(12) **United States Patent**
Lang et al.

(10) **Patent No.:** **US 6,314,420 B1**
(45) **Date of Patent:** ***Nov. 6, 2001**

(54) **COLLABORATIVE/ADAPTIVE SEARCH ENGINE**

(75) Inventors: **Andrew K. Lang; Donald M. Kosak,**
both of Pittsburgh, PA (US)

(73) Assignee: **Lycos, Inc.,** Waltham, MA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **09/204,149**

(22) Filed: **Dec. 3, 1998**

Related U.S. Application Data

(63) Continuation-in-part of application No. 08/627,436, filed on Apr. 4, 1996, now Pat. No. 5,867,799.

(51) **Int. Cl.**⁷ **G06F 17/30**

(52) **U.S. Cl.** **707/3; 707/10; 707/2; 707/5**

(58) **Field of Search** **707/1, 10, 102, 707/3, 2, 5**

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,019,961	*	5/1991	Addesso et al.	364/192
5,117,349	*	5/1992	Tirfing et al.	707/5
5,249,262	*	9/1993	Baule	395/66
5,471,610	*	11/1995	Kawaguchi et al.	707/4
5,537,586	*	7/1996	Amram et al.	707/3
5,544,049	*	8/1996	Henderson et al.	364/419.19
5,563,998	*	10/1996	Yaksich et al.	395/149
5,563,999	*	10/1996	Yaksich et al.	395/149

5,608,447	*	3/1997	Farry et al.	348/7
5,649,186	*	7/1997	Ferguson	707/10
5,842,199	*	11/1998	Miller et al.	707/2
5,867,799	*	2/1999	Lang et al.	707/1
5,983,214	*	11/1999	Lang et al.	707/1
6,006,222		12/1999	Culliss	707/5
6,014,665		1/2000	Culliss	707/5
6,029,161	*	2/2000	Lang et al.	707/1
6,078,916		6/2000	Culliss	707/5
6,182,068		1/2001	Culliss	707/5

OTHER PUBLICATIONS

Michael Persin, Document Filtering for Fast Ranking, Proceeding of the seventeenth annual international ACM-SIGIR conference on research and development in information retrieval, Jul. 6, 1994, pp. 339-348.*

* cited by examiner

Primary Examiner—Thomas Black

Assistant Examiner—Frantz Coby

(74) *Attorney, Agent, or Firm*—Testa, Hurwitz & Thibault, LLP

(57) **ABSTRACT**

A search engine system is provided for a portal site on the internet. The search engine system employs a regular search engine to make one-shot or demand searches for information entities which provide at least threshold matches to user queries. The search engine system also employs a collaborative/content-based filter to make continuing searches for information entities which match existing wire queries and are ranked and stored over time in user-accessible, system wires corresponding to the respective queries. A user feedback system provides collaborative feedback data for integration with content profile data in the operation of the collaborative/content-based filter. A query processor determines whether a demand search or a wire search is made for an input query.

36 Claims, 10 Drawing Sheets

