# Exhibit 1

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#### IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF TEXAS MARSHALL DIVISION

## NORTHEASTERN UNIVERSITY and JARG CORPORATION

Plaintiffs,

v.

**GOOGLE INC.** 

Defendant.

Civil Action No. 2:07-CV-486-CE

JURY TRIAL

Oral Hearing Requested

#### DEFENDANT GOOGLE INC.'S PATENT RULE 4-2 PRELIMINARY CLAIM CONSTRUCTION AND IDENTIFICATION OF EXTRINSIC EVIDENCE

In accordance with the Court's June 8, 2009 Order Granting Joint Motion to Extend Time and Patent Rule 4-2, Defendant Google Inc. ("Defendant" or "Google") submits the following preliminary claim construction for certain claims of U.S. Patent No. 5,694,593 (the "patent-in-suit"). In addition, where relevant, Google provides a preliminary identification of extrinsic evidence that supports its proposed claim constructions.

Google reserves the right to supplement or amend its constructions if necessary, including in light of Plaintiffs' contentions. Furthermore, Google submits its preliminary constructions and extrinsic evidence (where relevant) without the benefit of complete discovery from Plaintiffs or third parties. Therefore, Google reserves the right to supplement or amend its contentions as further evidence is discovered during the course of discovery.

Pursuant to Patent Rule 4-2(c), Google is prepared to meet and confer with Plaintiffs at a mutually agreeable time and place for the purpose of narrowing the issues and finalizing preparation of a Joint Claim Construction and Prehearing Statement.

#### I. DEFENDANT'S PRELIMINARY CLAIM CONSTRUCTION

Below are Google's preliminary claim constructions for the asserted patents. For convenience, Google's preliminary claim constructions are presented in chart format. Claim terms and phrases identified include those identified in Google's May 22, 2009 Patent Rule 4-1 Disclosure of Proposed Claim Terms for Construction as specifically requiring construction, as well as those claim terms and phrases identified in Plaintiffs' May 22, 2009 Patent Rule 4-1 Disclosure of Proposed Claim Terms. In so doing, Google does not concede that any claim term or phrase appearing in Plaintiffs' Patent Rule 4-1 Disclosure, but not also included in Google's Patent Rule 4-1 Disclosures, requires construction by the Court. For brevity, most terms and phrases identified by Google are defined only once, where they first appear. Claim terms and phrases not expressly defined below should be accorded their plain meaning to persons of ordinary skill in the art. Citations to patents are exemplary and not necessarily exhaustive.

CLAIM TERM	CONSTRUCTION
[1] "fuzzy queries" (claim <sup>1</sup> 1)	imprecise or inexact requests for
	information from a database, the result of
	which does not necessarily contain each
	term in the query
[2] "non-relational, distributed database	a database, stored across multiple
system" (claims 1, 8, 13)	computers on a network, wherein data
	objects exist independently of their attribute
	values, and wherein data is not extracted

Below is Google's preliminary claim construction for U.S. Patent No. 5,694,593:

<sup>&</sup>lt;sup>1</sup> Google has attempted to identify all the claim numbers that require construction. If Google has omitted any claim numbers, that omission is inadvertent. Like terms appearing in other claims should be given the same or a similar construction. DEFENDANT GOOGLE INC.'S PATENT RULE 4-2 PRELIMINARY CLAIM CONSTRUCTION AND IDENTIFICATION OF EXTRINSIC EVIDENCE

	using relational algebra
[3a] "a plurality of home nodes and a	a plurality of home nodes and query nodes
plurality of query nodes connected by a	connected by a network arranged with no
network" (claim 1)	central server and wherein, for any given
	query, any node may be defined as a home
[3b] "a plurality of home nodes; and a	node or a query node
plurality of query nodes; said plurality of	
home nodes and said plurality of query	
nodes connected by a network" (claims 8,	
13)	
[4] "randomly selecting" (claim 1)	selecting by chance, independently of
	preceding selections, where each item in
	the set has equal probability of being
	chosen
[5] "query fragment(s)" (claims 1, 8, 13)	a part of a query consisting of a limited
	number of attributes and attribute values
	joined by relationships, specified in the
	same formal, artificial language and
	ontology which describes the attribute
	values of objects of the database
[6] "hashing" or "hashes" (claims 1, 8, 13)	performing a mathematical function on a
	key value to generate the address of the
	location of data associated with the key
	value
[7] "hashed query fragment" (claims 1, 8,	a data value resulting from hashing a query
13)	fragment

[8] "a first portion and a second portion"	a first part separate and distinct from a
(claims 1, 8, 13)	second part
[9a] "transmitting, by said selected home	the selected home node sends each hashed
node, each said hashed query fragment of	query fragment to exactly one node on the
said plurality of query fragments to a	network, that node being identified by said
respective one of said plurality of query	first portion of the hashed query fragment
nodes indicated by said first portion of	
each said hashed query fragment" (claim	
1)	
[9b] "transmits each said hashed query	
fragment to a respective one of said	
plurality of query nodes indicated by said	
first portion of said hashed query	
fragment" (claim 8)	
[9c] "transmitting a query message	
containing each said hashed query	
fragment to a respective one of said	
plurality of query nodes indicated by said	
first portion of said hashed query	
fragment" (claim 13)	
[10a] "using, by said query node, said	each query node receiving a hashed query
second portion of said respective hashed	fragment uses the second portion of the
query fragment to access data according to	hashed query fragment as a key value to
a local hash table located on said query	identify the address of data according to a

node" (claim 1)	local hash table stored on that query node
[10b] "each said query node uses said second portion of said hashed query fragment to access data according to a local hash table located on said query node" (claim 8)	
[10c] "said query node, upon receipt of said query message, using said second portion of said hashed query fragment to access data according to a local hash table located on said query node" (claim 13)	
[11] "local hash table" (claims 1, 8, 13)	a table resident on and unique to a particular query node in which the unique location of the information in the table is determined by hashing a key value
[12a] "returning, by each said query node" (claim 1)	each query node that accesses data returns an object identifier to the home node
<ul><li>[12b] "each said query node … returns"</li><li>(claim 8)</li><li>[12c] "said query node … returning"</li></ul>	
(claim 13)	
[13] "predetermined degree of relevance"	a predefined degree of similarity; only

(claims 3, 9)	results meeting or exceeding a
	predetermined level are returned to the user
	after the object identifier has been returned
[14] "object identifier" (claims 1, 3, 8, 13)	unique identifier of a data object stored in a
	database

### II. EXTRINSIC EVIDENCE

Google preliminarily identifies the following extrinsic evidence that it contends supports its claim constructions. Google reserves the right to present any evidence in rebuttal to extrinsic evidence Plaintiffs may identify in support of their claim construction contentions and as discovery progresses:

- *Dictionary of Computing*. Research Triangle Park, NC: International Business Machines Corporation, 1991 (GN 292964-968)
- J.A. Simpson & E.S.C. Weiner, eds. *Oxford English Dictionary*, 2<sup>nd</sup> ed., vol. 13 (Clarendon Press: Oxford, UK) (1989) (GN 300402-406)
- Gunton, Tony, *A Dictionary of Information Technology and Computer Science* (2nd ed.) (Oxford, UK: NCC Blackwell Ltd.), 1993 (GN 292977-982, GN 300249-260)
- *Webster's New World Dictionary of Computer Terms* (4<sup>TH</sup> ed.) (Prentice Hall: New York, NY), 1992 (GN 292954-60, GN 300237-248)
- *Random House Webster's College Dictionary* (New York, NY: Random House Inc.), 1991 (GN 292947-953, GN 300197-206)
- Christopher Booth, ed. *The New IEEE Standard Dictionary of Electrical and Electronics Terms* (5th Ed.: Inst. of Electrical & Electronics Engineers, Inc.) (1993) (GN 300207-221)
- *IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries* (Inst. of Electrical & Electronics Engineers, Inc.) (1991) (GN 300222-236)
- Donald Knuth, The Art of Computer Programming, Volume 3, Sorting and Searching, Addison-Wesley, 1973 (GN 005628-809)
- Jim Gray, Andreas Reuter, *Transaction Processing: Concepts and Techniques*, Morgan Kaufman, 1993 (GN 300173-196)

- William B. Frakes, Ricardo Baeza-Yates, ed., *Information Retrieval / Data Structures & Algorithms*, Prentice Hall (1992) (GN 004430-60, GN 004714-83)
- Gerald Salton, Automatic Text Processing: The Transformation, Analysis, and Retrieval of Information by Computer, Addison-Wesley (1989) (GN 3331-97)
- Gerald Salton, Michael McGill, *Introduction to Modern Information Retrieval*, McGraw-Hill (1983) (GN 292518–545, GN 292822-841)
- Prosecution History for U.S. Patent No. 6,505,191 (July 3, 2002 Response to Office Action at 5) (GN 299941-300172)
- U.S. Patent No. 6,192,364 (GN 299812-831)
- U.S. Patent No. 6,424,973 (GN 299832-854)
- U.S. Patent No. 6,463,433 (GN 299855-877)
- U.S. Patent No. 6,470,333 (GN 299878-897)
- U.S. Patent No. 6,505,191 (GN 299917-940)
- U.S. Patent No. 6,535,881 (GN 299898-916)
- Anchor Wall Systems, Inc. v. Concrete Products of New London, Inc., 2003 WL 1589532 at \*3, No. Civ. 01-465 ADM/AJB (D. Minnesota, March 26, 2003) (GN 299783-789)
- *Merit Indust. v. JVL Corp.*, WL 2463377 Civ. No. 03-1618 (E.D.Pa. Aug. 27, 2007) (GN 299790-811)
- JAR 0000294-313
- JAR 0000828-845
- JAR 108483
- JAR 108497
- JAR 116994
- JAR 120394
- JAR 145968-970
- JAR 145995-997
- JAR 146051
- JAR 146084-092

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- JAR 146229-267
- JAR 146353-354
- JAR 148895-899
- JAR 152503-517
- JAR 152552-560
- JAR 152668-672
- JAR 152860-865
- JAR 152869-874
- JAR 152878-883
- JAR 153050-055
- JAR 153059-064
- JAR 153263-277
- JAR 183954
- JAR 189888
- JAR 217065
- JAR 219469
- JAR 254746-769
- JAR 294498-502
- JAR 342217 29

Google reserves the right to rely upon the testimony of one or more experts who will explain the technology, the state of the art at the time the patent applications were filed, the meaning of claim terms as they would be understood by those of ordinary skill in the art at the time of the invention, the proper construction of various claim terms, and the level of ordinary skill in the relevant art. Any such expert witnesses may also offer testimony if necessary to respond to Plaintiffs' contentions or for the Court's benefit.

Respectfully submitted,

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Attorneys for Defendant GOOGLE INC.

#### **CERTIFICATE OF SERVICE**

The undersigned hereby certifies that on July 31, 2009, a true and correct copy of GOOGLE INC.'S P.R. 4-2 PRELIMINARY CLAIM CONSTRUCTION AND IDENTIFICATION OF EXTRINSIC EVIDENCE was served on all counsel of record who are deemed to have consented to electronic service via the Court's CM/ECF system pursuant to Local Rule CV-5(a)(3).

/s/ *Shelley K. Mack* Shelley K. Mack