Appendix A - Joint Claim Constructions of Plaintiffs and Defendant for 5,694,593

Disputed Claims	Plaintiffs' Proposed Construction	Google's Proposed Construction	Court's Construction
1. A method for information retrieval using **fuzzy queries** in a **non-relational, distributed database system** having **a plurality of home nodes and a plurality of query nodes connected by a network**, said method comprising the steps of:	**"fuzzy queries" [AGREED]** "**non-relational, distributed database system"** "a database not using a relational model that is distributed among a plurality of interconnected computer nodes" **"a plurality of home nodes and a plurality of query nodes connected by a network"** The claim language has its plain and ordinary meaning; no further construction necessary.	**"fuzzy queries" [AGREED]** "**non-relational, distributed database system"** "a database, stored across multiple computers on a network, wherein data objects exist independently of their attribute values, and wherein data is not extracted using relational algebra" **"a plurality of home nodes and a plurality of query nodes connected by a network"** "a plurality of home nodes and query nodes connected by a network arranged with no central server and wherein, for any given query, any node may be defined as a home node or a query node"	**"fuzzy queries"** "imprecise or inexact requests for information from a database, the result of which does not necessarily contain each term in the query"

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1[a] **randomly selecting** a first one of said plurality of home nodes;	**"randomly selecting"** "selecting without an apparent pattern"	**"randomly selecting"** "selecting by chance, independently of preceding selections, where each item in the set has equal probability of being chosen"	
1[b] fragmenting, by said selected home node, a query from a user into a plurality of **query fragment**s;	"**query fragment"** "a sub-part or piece of a query"	"**query fragment"** "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"	
1[c] **hashing**, by said selected home node, each said **query fragment** of said plurality of **query fragments**, said hashed query fragment having **a first portion and a second portion**;	**"hashing"** "a computer technique whereby one or more functions are used to transform values into corresponding values" **"a first portion and a second portion"** The claim language has its plain and ordinary meaning; no further construction necessary.	**"hashing"** "performing a mathematical function on a key value to generate the address of the location of data associated with the key value" **"a first portion and a second portion"** "a first part separate and distinct from a second part"	
1[d] **transmitting, by said selected home node, each said**	**"transmitting, by said selected home node, each said**	**"transmitting, by said selected home node, each said**	

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hashed query fragment of said plurality of query fragments to a respective one of said plurality of query nodes indicated by said first portion of each said hashed query fragment;	**hashed query fragment of said plurality of query fragments to a respective one of said plurality of query nodes indicated by said first portion of each said hashed query fragment"** The claim language has its plain and ordinary meaning; no further construction necessary.	**hashed query fragment of said plurality of query fragments to a respective one of said plurality of query nodes indicated by said first portion of each said hashed query fragment"** "the selected home node sends each hashed query fragment to exactly one node on the network, that node being identified by said first portion of the hashed query fragment"	
1[e] **using, by said query node, said second portion of said respective hashed query fragment to access data according to a local hash table located on said query node**; and	**"using, by said query node, said second portion of said respective hashed query fragment to access data according to a local hash table located on said query node"** The claim language has its plain and ordinary meaning; no further construction necessary. **"local hash table"** "a table that associates hash values with	**"using, by said query node, said second portion of said respective hashed query fragment to access data according to a local hash table located on said query node"** "each query node receiving a hashed query fragment uses the second portion of the hashed query fragment as a key value to identify the address of data according to a local hash table stored on that query node" **"local hash table"** "a table resident on and unique to a	

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	other data"	particular query node in which the unique location of the information in the table is determined by hashing a key value"	
1[f] **returning, by each said query node** accessing data according to said respective hashed query fragment, an object identifier corresponding to said accessed data to said selected home node.	**"returning, by each said query node"** The claim language has its plain and ordinary meaning; no further construction necessary.	**"returning, by each said query node"** "each query node that accesses data returns an object identifier to the home node"	
3. The method of claim 1 further comprising the steps of: 3[a] determining, by said home node, a measure of relevance between said accessed data and said query; and 3[b] returning, to said user, by said home node, accessed data having a **predetermined degree of relevance**, subsequent to the step of returning said object identifier.	"**predetermined degree of relevance**" "a degree of relevance that is determined before returning accessed data to the user"	"**predetermined degree of relevance**" "a predefined degree of similarity; only results meeting or exceeding a predetermined level are returned to the user after the object identifier has been returned"	
8. A **non-relational, distributed database system**	"**non-relational, distributed**	"**non-relational, distributed**	

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having an information retrieval tool for handling queries from a user, comprising:	**database system"** See 1 above	**database system"** See 1 above	
8[a] **a plurality of home nodes; and** 8[b] **a plurality of query nodes;** 8[c] **said plurality of home nodes and said plurality of query nodes connected by a network**,	"**a plurality of home nodes; and a plurality of query nodes; said plurality of home nodes and said plurality of query nodes connected by a network**," See 1 above	"**a plurality of home nodes; and a plurality of query nodes; said plurality of home nodes and said plurality of query nodes connected by a network**," See 1 above	
8[d] wherein each said home node, upon receiving a query from a user, fragments said query into a plurality of **query fragments**, **hashes** each said **query fragment** of said plurality of **query fragments** into a hashed query fragment having **a first portion and a second portion**, and **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**	"**query fragment"** See 1[b] above **"hashes"** See 1[c] ("hashing") above **"a first portion and a second portion"** See 1[c] above **"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"** See 1[d]	"**query fragment"** See 1[b] above **"hashes"** See 1[c] ("hashing") above **"a first portion and a second portion"** See 1[c] above **"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"** See 1[d]	

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fragment, and	("transmitting…") above	("transmitting…") above	
8[e] further wherein **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** and **returns** an object identifier corresponding to said accessed data to said home node.	**"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"** See 1[e] ("using…") above **"local hash table"** See 1[e] above **"each said query node…returns"** See 1[f] ("returning…") above	**"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"** See 1[e] ("using…") above **"local hash table"** See 1[e] above **"each said query node…returns"** See 1[f] ("returning…") above	
9. The distributed database system of claim 8 wherein said home node determines a measure of relevance between said accessed data and said query and returns to said user accessed data having a **predetermined degree of relevance**.	"**predetermined degree of relevance**" See 3[b] above	"**predetermined degree of relevance**" See 3[b] above	
13. A **non-relational, distributed database system** having an information retrieval tool for handling queries from a	"**non-relational, distributed database system"** See 1 above	"**non-relational, distributed database system"** See 1 above	

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user, comprising:			
13[a] **a plurality of home nodes; and** **13[b] a plurality of query nodes, said plurality of home nodes and said plurality of query nodes connected by a network**,	"**a plurality of home nodes; and a plurality of query nodes, said plurality of home nodes and said plurality of query nodes connected by a network**" See 1 above	"**a plurality of home nodes; and a plurality of query nodes, said plurality of home nodes and said plurality of query nodes connected by a network**" See 1 above	
13[c] each said home node, upon receiving a command from a user, enqueueing a predetermined task in response to said command, a query task enqueued being resultant in, in response to a query command from said user, fragmenting a query contained in said query command into a plurality of **query fragment**s, **hashing** each said **query fragment** of said plurality of **query fragment**s into a hashed query fragment having **a first portion and a second portion**, and **transmitting a query message containing each said hashed query fragment to a respective one of said**	"**query fragment"** See 1[b] above **"hashing"** See 1[c] above **"a first portion and a second portion"** See 1[c] above **"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"** See 1[d] above	"**query fragment"** See 1[b] above **"hashing"** See 1[c] above **"a first portion and a second portion"** See 1[c] above **"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"** See 1[d] above	

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plurality of query nodes indicated by said first portion of said hashed query fragment,			
13[d] **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** and transmitting a message **returning** an object identifier corresponding to said accessed data to said home node.	**"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"** See 1[e] ("using…") above **"local hash table"** See 1[e] above **"said query node…returning"** See 1[f] ("returning…") above	**"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"** See 1[e] ("using…") above **"local hash table"** See 1[e] above **"said query node…returning"** See 1[f] ("returning…") above	