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(54) **Title:** METHODS, SYSTEMS AND COMPUTER PROGRAM PRODUCTS FOR USING A DISTRIBUTED ASSOCIATIVE MEMORY BASE TO DETERMINE DATA CORRELATIONS AND CONVERGENCE THEREIN

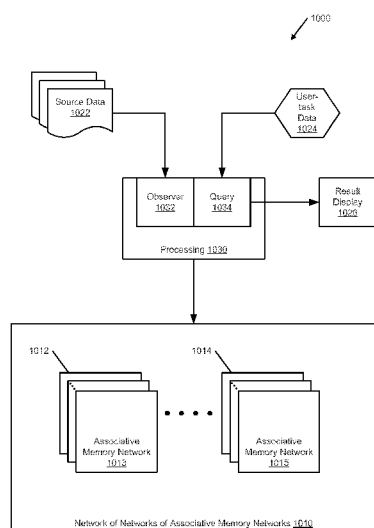


Figure 1

(57) **Abstract:** Associative memory systems, methods and computer program products are provided. An associative memory system includes a distributed associative memory base including a network of networks of associative memory networks. A respective associative memory network includes associations among a respective observer memories and a plurality of observed memories that are observed by the respective observer memory. Ones of the associative memory networks are physically and/or logically independent from other ones of the associative memory networks. A processing system is configured to observe associations into and imagine associations from, the distributed associative memory base using multiple streaming queues that correspond to respective ones of multiple rows in the associative memory networks. The processing system is further configured to determine a cognitive distance between a term and a class of terms, the cognitive distance being returned responsive to a query of the distributed associative memory base.



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A. CLASSIFICATION OF SUBJECT MATTER

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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)

G06N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/306227 A1 (FLEMING JAMES S [US] ET AL) 2 December 2010 (2010-12-02)	1,18,21
Y	the whole document	2-17,19, 20,22-32
Y	----- US 6 983 345 B2 (LAPIR GANNADY [DE] ET AL) 3 January 2006 (2006-01-03) abstract column 3, line 21 - column 4, line 63 column 5, line 66 - column 7, line 26 column 8, line 17 - column 10, line 54 -----	2-17,19, 20,22-32
A	US 2008/306944 A1 (APARICIO IV MANUEL [US] ET AL) 11 December 2008 (2008-12-11) abstract; figures 2,3,6,7,8,11,14 paragraphs [0042] - [0085] -----	11-15, 23-31



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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