

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 1345-013WO	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/US 16/44537	International filing date (<i>day/month/year</i>) 28 July 2016 (28.07.2016)	(Earliest) Priority Date (<i>day/month/year</i>) 30 July 2015 (30.07.2015)	
Applicant ALGEBRAIX DATA CORP.			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed.
 a translation of the international application into _____ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

b. This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6bis(a)).

c. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. **Certain claims were found unsearchable** (see Box No. II).

3. **Unity of invention is lacking** (see Box No. III).

4. With regard to the **title**,

- the text is approved as submitted by the applicant.
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant.
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the drawings to be published with the abstract is Figure No. 1
 as suggested by the applicant.
 as selected by this Authority, because the applicant failed to suggest a figure.
 as selected by this Authority, because this figure better characterizes the invention.
- b. none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 16/44537

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(8) - G06F 17/30 (2016.01)
 CPC - G06F 17/30864, G06F 17/30398, G06F 17/30595
 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)
 IPC(8) - G06F 17/30 (2016.01)
 CPC - G06F 17/30864, G06F 17/30398, G06F 17/30595

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
 IPC(8) - G06F 17/30 (2016.01) (text search); USPC - 707/759, 707/765, 707/779 (text search)
 CPC - G06F 17/30864, G06F 17/30398, G06F 17/30595, G06Q 30/02, G06Q 40/00 (text search)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 PatBase, Google Patents, Google Scholar; Search terms used: query optimization graph manipulation data insert delete stream independent lowest cost dataset recursive

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ----- Y	US 2006/0218123 A1 (CHOWDHURI et al.) 28 September 2006 (28.09.2006), entire document, especially para [0015], [0045], [0061], [0076], [0078], [0109], [0130], [0165], [0243]	1-6, 9-14, 17-20 ----- 7, 8, 15, 16
Y	US 2014/0074888 A1 (POTTER et al.) 13 March 2014 (13.03.2014), entire document, especially Fig. 21B; para [0987]	7, 15
Y	US 2003/0037173 A1 (PACE et al.) 20 February 2003 (20.02.2003), entire document, especially para [0199]	8, 16
A	US 2007/0276786 A1 (PIEDMONTE) 29 November 2007 (29.11.2007), entire document	1-20
A	US 5,546,576 A (COCHRANE et al.) 13 August 1996 (13.08.1996), entire document	1-20

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 02 October 2016	Date of mailing of the international search report 20 OCT 2016
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Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-8300	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774
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