

PCT REQUESTOriginal (for **SUBMISSION**)

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| 0 | For receiving Office use only | |
| 0-1 | International Application No. | PCT/US16/44537 |
| 0-2 | International Filing Date | 28-07-2016 |
| 0-3 | Name of receiving Office and "PCT International Application" | RO/US |
| 0-4 | Form PCT/RO/101 PCT Request | |
| 0-4-1 | Prepared Using | PCT-SAFE [EFS-Web mode] Version 3.51.073.249 MT/FOP 20160401/0.20.5.24 |
| 0-5 | Petition | |
| | The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty | |
| 0-6 | Receiving Office (specified by the applicant) | United States Patent and Trademark Office (USPTO) (RO/US) |
| 0-7 | Applicant's or agent's file reference | 1345-013WO |
| I | Title of Invention | MAINTAINING PERFORMANCE IN THE PRESENCE OF INSERTIONS, DELETIONS, AND STREAMING QUERIES |
| II | Applicant | |
| II-1 | This person is | Applicant only |
| II-2 | Applicant for | All designated States |
| II-4 | Name | ALGEBRAIX DATA CORP. |
| II-5 | Address | 9601 Amberglen Boulevard Suite 119 Austin, Texas 78729-1106 United States of America |
| II-6 | State of nationality | US |
| II-7 | State of residence | US |
| III-1 | Applicant and/or inventor | |
| III-1-1 | This person is | Applicant and inventor |
| III-1-2 | Applicant for | All designated States |
| III-1-4 | Name (LAST, First) | HOLLER, Wesley A. |
| III-1-5 | Address | c/o ALGEBRAIX DATA CORP. 9601 Amberglen Boulevard Suite 119 Austin, Texas 78729-1106 United States of America |
| III-1-6 | State of nationality | US |
| III-1-7 | State of residence | US |

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| III-2 | Applicant and/or inventor | |
| III-2-1 | This person is | Inventor only |
| III-2-3 | Inventor for | All designated States |
| III-2-4 | Name (LAST, First) | JOHNSTON, Charles Stephen |
| III-2-5 | Address | c/o ALGEBRAIX DATA CORP. 9601 Amberglen Boulevard Suite 119 Austin, Texas 78729-1106 United States of America |
| III-3 | Applicant and/or inventor | |
| III-3-1 | This person is | Inventor only |
| III-3-3 | Inventor for | All designated States |
| III-3-4 | Name (LAST, First) | ROGERS, William Arthur |
| III-3-5 | Address | c/o ALGEBRAIX DATA CORP. 9601 Amberglen Boulevard Suite 119 Austin, Texas 78729-1106 United States of America |
| IV-1 | Agent or common representative; or address for correspondence | |
| | The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as: | Agent |
| IV-1-1 | Name (LAST, First) | JOHNSON, Timothy W. |
| IV-1-2 | Address | The Marbury Law Group, PLLC 11800 Sunrise Valley Drive 15th Floor Reston, Virginia 20191 United States of America |
| IV-1-3 | Telephone No. | 703 391 2900 |
| IV-1-4 | Facsimile No. | 703 391 2901 |
| IV-1-5 | e-mail | ptonotices@marburylaw.com |
| IV-1-5(a) | E-mail authorization | exclusively in electronic form (no paper notifications will be sent) |
| | The receiving Office, the International Searching Authority, the International Bureau and the International Preliminary Examining Authority are authorized to use this e-mail address, if the Office or Authority so wishes, to send notifications issued in respect of this international application: | |
| IV-1-6 | Agent's registration No. | 66580 |
| IV-2 | Additional agent(s) | |
| IV-2-1 | Name(s) | additional agent(s) with same address as first named agent |
| | | MAZAHERY, Benjamin(60969); O'BRIEN, Michelle(73139); BOUSHEHRI,, Darjush(73139); COHN,, Joanna(68010); CONNOR,, David(59868); GAUL, Allison(65645); GAYOSO, Tony(37331); |

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| | | GERETY, Todd(51729); GILL, Matthew(48490); HANSEN, Robert(43656); HUANG, Stephen(45304); HYAMS, David(50947); LING, Yutian(64400); MURPHY, Timothy(62585); PARK, Byeongju(59120); RADOMSKY, Leon(43445); RUTT, J. Steven(40153); SHAUGHNESSY, Kevin(51014); SIMON, Phyllis(71019); SULSKY, Martin(45403) |
| V | DESIGNATIONS | |
| V-1 | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. | |
| VI-1 | Priority claim of earlier national application | |
| VI-1-1 | Filing date | 30 July 2015 (30.07.2015) |
| VI-1-2 | Number | 62/199,100 |
| VI-1-3 | Country or Member of WTO | US |
| VI-2 | Priority document request | |
| | The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s): | VI-1 |
| VI-3 | Incorporation by reference : | |
| | where an element of the international application referred to in Article 11(1)(iii)(d) or (e) or a part of the description, claims or drawings referred to in Rule 20.5(a) is not otherwise contained in this international application but is completely contained in an earlier application whose priority is claimed on the date on which one or more elements referred to in Article 11(1)(iii) were first received by the receiving Office, that element or part is, subject to confirmation under Rule 20.6, incorporated by reference in this international application for the purposes of Rule 20.6. | |
| VII-1 | International Searching Authority Chosen | United States Patent and Trademark Office (USPTO) (ISA/US) |

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| VIII | Declarations | Number of declarations | |
|-------------|--|------------------------|--|
| VIII-1 | Declaration as to the identity of the inventor | — | |
| VIII-2 | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent | 1 | |
| VIII-3 | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | 1 | |
| VIII-4 | Declaration of inventorship (only for the purposes of the designation of the United States of America) | — | |
| VIII-5 | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty | — | |

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| IX | Check list | Number of sheets | Electronic file(s) attached |
|--------------|---|--|-----------------------------|
| IX-1 | Request (including declaration sheets) | 7 | ✓ |
| IX-2 | Description | 29 | - |
| IX-3 | Claims | 5 | - |
| IX-4 | Abstract | 1 | ✓ |
| IX-5 | Drawings | 9 | - |
| IX-7 | TOTAL | 51 | |
| | Accompanying Items | Paper document(s) attached | Electronic file(s) attached |
| IX-8 | Fee calculation sheet | ✓ | - |
| IX-20 | Figure of the drawings which should accompany the abstract | 5 | |
| IX-21 | Language of filing of the international application | English | |
| X-1 | Signature of applicant, agent or common representative | /Timothy W. Johnson, Esq., 66580/ | |
| X-1-1 | Name (LAST, First) | JOHNSON, Timothy W. | |
| X-1-3 | Capacity (if such capacity is not obvious from reading the request) | | |

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| 10-1 | Date of actual receipt of the purported international application | 28-07-2016 |
| 10-2 | Drawings: | |
| 10-2-1 | Received | |
| 10-2-2 | Not received | |
| 10-3 | Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application | |
| 10-4 | Date of timely receipt of the required corrections under PCT Article 11(2) | |
| 10-5 | International Searching Authority | ISA/US |
| 10-6 | Transmittal of search copy delayed until search fee is paid | |

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| 11-1 | Date of receipt of the record copy by the International Bureau | |
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