

Database Management and Electronic Document Content Mapping – Patent Acquisition Opportunity

ICAP Patent Brokerage LLC has been engaged by Semantic Software Asia Pacific Ltd. (in Liquidation), in the sale of the patent portfolio of its wholly-owned subsidiary, Semantic Technologies Pty Ltd. The Company's patent portfolio consists of **19 issued US patents and pending applications comprising six (6) patent families**. The largest patent family, comprised of 22 patent assets, is related to the general area of database management and, in particular, to content transferring / importing, as well as extracting to / from databases. The remaining other five 5 patent families relate to mapping the content of an electronic document to ontology language terms. In addition to the issued US patent and pending applications, the proposed sale will also include any and all legally related, expired and abandoned applications and assets, as well as all related foreign counterparts that are similarly expired or abandoned.

The most prominent industry applications related to the technologies addressed in this patent portfolio can be found where there is a need for extraction and processing of "Big Data" (a combination of both large and small data sets, structured and unstructured formats, internal and external sources, and so forth). The potential application for these innovations is vast; the most prominent industries are:

- Banking & Securities
- Communications, Media & Entertainment
- Healthcare Providers
- Manufacturing and Natural Resources
- Government
- Insurance
- Retail and Wholesale trade
- Transportation
- Energy and Utilities

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The technology covered by Semantic Technologies' patent portfolio, in general, deals with the indexing, searching, and transformation of unstructured data. Unstructured data associated with web and social media content is pervasive. There is a need to structure, normalize, sanitize, and disambiguate this data so that the format of the content can be described accurately, through schema, and indexed accordingly.

The first solution covered by the portfolio relates to generating an ontology index for use in mapping content fields to ontology terms from one or more ontologies and a method of using an ontology index for mapping content fields to ontology terms from one or more ontologies.

A second innovation covered by the portfolio is a method of transferring content from a file to a database, the file including content instances, each content instance being associated with a respective field, and each field having a respective type. This method involves the examination of file contents associated with fields that have a field-type, determines where a content instance within the field should be stored in the database, then generates data that is related to the database fields; then using the generated data, transfers content to the database.

A third innovation covered by the portfolio is a method of extracting content from a database, the database including content instances associated with database fields having a respective database field type. To achieve this, multiple files are created that contain fields with respective field types; for each file an appropriate mapping is selected based on the file's document type definition (DTD) and is used to create a mapping for content instances to their respective fields. These mappings are created iteratively and stored.

A fourth important innovation covered by the portfolio is a method for determining the meaning of an ontology term and a match scoring method.

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Patent Assets

Family Group 1

Title: Content Transfer
 Priority Year: 2001

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|----------------------------------|-----------------|------------------------|-------------------------|------------------------|-----------------------|
| US2021263948A1 | US202016841608 | 18-Jul-2001 | 6-Apr-2020 | 26-Aug-2021 | 6-Apr-2040 |
| US10706064B2 | US201213494951 | 18-Jul-2001 | 12-Jun-2012 | 7-Jul-2020 | 1-Sep-2025 |
| US10303698B2 | US201213590158 | 18-Jul-2001 | 20-Aug-2012 | 28-May-2019 | 11-Sep-2025 |
| US10169435B2 | US201213590160 | 18-Jul-2001 | 20-Aug-2012 | 1-Jan-2019 | 2-Apr-2023 |
| US10133799B2 | US201213590153A | 18-Jul-2001 | 20-Aug-2012 | 20-Nov-2018 | 7-Nov-2022 |
| US10078675B2 | US201213590163 | 18-Jul-2001 | 20-Aug-2012 | 18-Sep-2018 | 18-Jul-2022 |
| US10073898B2 | US201213494964 | 18-Jul-2001 | 12-Jun-2012 | 11-Sep-2018 | 18-Jul-2022 |
| US10031955B2 | US201213494946 | 18-Jul-2001 | 12-Jun-2012 | 24-Jul-2018 | 6-Jun-2023 |
| US9959331B2 | US201213494957A | 18-Jul-2001 | 12-Jun-2012 | 1-May-2018 | 8-Aug-2024 |
| US9934296B2 | US201213494960A | 18-Jul-2001 | 12-Jun-2012 | 3-Apr-2018 | 13-Oct-2026 |
| US9767175B2 | US201213590139 | 18-Jul-2001 | 20-Aug-2012 | 19-Sep-2017 | 18-Jul-2022 |
| US9720988B2 | US201213494962 | 18-Jul-2001 | 12-Jun-2012 | 1-Aug-2017 | 18-Jul-2022 |
| US9679035B2 | US201213590165 | 18-Jul-2001 | 20-Aug-2012 | 13-Jun-2017 | 10-Dec-2025 |
| US9607064B2 | US201213590142A | 18-Jul-2001 | 20-Aug-2012 | 28-Mar-2017 | 1-Apr-2023 |
| US9378257B2 | US201213590145A | 18-Jul-2001 | 20-Aug-2012 | 28-Jun-2016 | 18-Jul-2022 |
| US9317573B2 | US201213494948 | 18-Jul-2001 | 12-Jun-2012 | 19-Apr-2016 | 12-Aug-2024 |
| US8615483B2 | US20080324314 | 18-Jul-2001 | 26-Nov-2008 | 24-Dec-2013 | 11-Feb-2025 |
| US2012254237A1 * | US201213494966A | 18-Jul-2001 | 12-Jun-2012 | 4-Oct-2012 | 12-Jun-2032 |
| AU2002318987B2 | AU20020318987 | 18-Jul-2001 | 18-Jul-2002 | 12-Mar-2009 | 18-Jul-2022 |
| US7464099B2 | US20040484030 | 18-Jul-2001 | 6-Oct-2004 | 9-Dec-2008 | 27-Mar-2023 |
| AU2002318987A1 | AU20020318987 | 18-Jul-2001 | 18-Jul-2002 | 3-Mar-2003 | 18-Jul-2022 |

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Family Group 2

Title: Ontology Index for Content Mapping

Priority Year: 2013

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|--------------------------------|-----------------|------------------------|-------------------------|------------------------|-----------------------|
| US2019332630A1 | US201916504203A | 16-Jul-2013 | 5-Jul-2019 | 31-Oct-2019 | 5-Jul-2039 |
| US10387491B2 | US201414332237A | 16-Jul-2013 | 15-Jul-2014 | 20-Aug-2019 | 1-May-2036 |

Family Group 3

Title: Ontology Mapping Method and Apparatus

Priority Year: 2014

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|----------------------------------|-----------------|------------------------|-------------------------|------------------------|-----------------------|
| IN201627037197A | IN201627037197 | 2-Apr-2014 | 31-Oct-2016 | 8-Sep-2017 | 31-Oct-2036 |
| US2017185674A1 * | US201515301357A | 2-Apr-2014 | 2-Apr-2015 | 29-Jun-2017 | 2-Apr-2035 |
| JP2017513134A | JP2016559652A | 2-Apr-2014 | 2-Apr-2015 | 25-May-2017 | 2-Apr-2035 |
| CN106663101A * | CN2015829320 | 2-Apr-2014 | 2-Apr-2015 | 10-May-2017 | 24-Nov-2017 |
| EP3127020A1 * | EP20150774345 | 2-Apr-2014 | 2-Apr-2015 | 8-Feb-2017 | 3-Nov-2017 |
| IL248022D0 | IL20160248022 | 2-Apr-2014 | 25-Sep-2016 | 30-Nov-2016 | 25-Sep-2036 |
| SG11201607828A | SG11201607828R | 2-Apr-2014 | 2-Apr-2015 | 28-Oct-2016 | 2-Apr-2035 |
| CA2952549A1 * | CA20152952549 | 2-Apr-2014 | 2-Apr-2015 | 8-Oct-2015 | 2-Apr-2035 |
| WO2015149114A1 * | WO2015AU00195 | 2-Apr-2014 | 2-Apr-2015 | 8-Oct-2015 | 2-Oct-2017 |

Family Group 4

Title: Ontology aligner method, semantic matching method, and apparatus

Priority Year: 2104

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|----------------------------------|-----------------|------------------------|-------------------------|------------------------|-----------------------|
| JP2017514256A | JP2017507042A | 24-Apr-2014 | 24-Apr-2015 | 1-Jun-2017 | 24-Apr-2035 |
| US2017046425A1 * | US201515306478A | 24-Apr-2014 | 24-Apr-2015 | 16-Feb-2017 | 24-Apr-2035 |
| SG11201608927A | SG20161108927P | 24-Apr-2014 | 24-Apr-2015 | 29-Dec-2016 | 24-Apr-2035 |
| IL248464D0 | IL20160248464 | 24-Apr-2014 | 25-Oct-2016 | 29-Dec-2016 | 25-Oct-2036 |
| WO2015161338A1 * | WO2015AU00240 | 24-Apr-2014 | 24-Apr-2015 | 29-Oct-2015 | 24-Oct-2017 |

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Family Group 5

Title: Putative Ontology Generating Method and Apparatus
 Priority Year: 2014

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|----------------------------------|-------------------|------------------------|-------------------------|------------------------|-----------------------|
| US2020372057A1 | US201916692593 | 12-May-2014 | 22-Nov-2019 | 26-Nov-2020 | 22-Nov-2039 |
| IN201627042354A | IN201627042354 | 12-May-2014 | 12-Dec-2016 | 8-Sep-2017 | 12-Dec-2036 |
| JP2017521748A | JP2016567840A | 12-May-2014 | 8-May-2015 | 3-Aug-2017 | 8-May-2035 |
| EA201692294A1 | EA20160092294 | 12-May-2014 | 8-May-2015 | 31-May-2017 | 8-May-2035 |
| US2017083547A1 * | US201515310751 | 12-May-2014 | 8-May-2015 | 23-Mar-2017 | 15-Jan-2020 |
| EP3143527A1 * | EP20150792770 | 12-May-2014 | 8-May-2015 | 22-Mar-2017 | 1-Dec-2017 |
| IL248916D0 | IL20160248916 | 12-May-2014 | 13-Nov-2016 | 31-Jan-2017 | 13-Nov-2036 |
| WO2015172177A1 * | PCT/AU2015/000270 | 12-May-2014 | 8-May-2015 | 19-Nov-2015 | 12-Nov-2017 |
| AU2015258752A1 * | AU20150258752 | 12-May-2014 | 8-May-2015 | 5-Jan-2017 | 9-May-2019 |

Family Group 6

Title: Semantic Knowledge Base
 Priority Year: 2015

| Record Number | Application No. | Earliest Priority Date | Filing/Application Date | Publication/Issue Date | Estimated Expiry Date |
|----------------------------------|-----------------|------------------------|-------------------------|------------------------|-----------------------|
| US2019311003A1 | US201816231355A | 19-Mar-2015 | 21-Dec-2018 | 10-Oct-2019 | 21-Dec-2038 |
| WO2016145480A1 * | WO2016AU00096 | 19-Mar-2015 | 21-Mar-2016 | 22-Sep-2016 | 19-Sep-2018 |

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