

Claim Charts for U.S. Patent 9,600,842

EXHIBIT W

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The following claim charts are preliminary in nature. e-Numerate reserves the right to amend and supplement these proceeds.

29. A computer program product embodied on at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to operate, the computer program product comprising:

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document and at least one Business Reporting Language (XBRL)-compliant and includes:

a plurality of line items with a plurality of data values, and

a plurality of computer-readable semantic tags that describe a semantic meaning of the data values, wherein the computer-readable XML-compliant data document is capable of including multiple hierarchical relationships between the plurality of line items;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to parse the at least one computer-readable XML-compliant data document, by:

receiving the at least one computer-readable XML-compliant data document,

identifying the multiple hierarchical relationships between the two line items, and at least one of the semantic tags that describes the semantic meaning of at least one of the data values included in the at least one XML-compliant data document;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to access a plurality of computer-readable rules including:

a computer-readable datatype rule for validation of a type of data values,

a computer-readable calculation rule for validation of a calculation involving data values, and a computer-readable unit rule for validation of a unit of data values;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to

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processor to process the at least one computer-readable XML-compliant data document, by:

identifying at least a subset of the computer-readable rules including at least one of: the computer-readable datatype rule for validation of the type of data values,

the computer-readable calculation rule for validation of the calculation involving data values, or

the computer-readable unit rule for validation of the unit of data values; and

processing at least a portion of the data values of at least a portion of the plurality of line items of the computer-readable XML-compliant data document, utilizing the at least subset of the computer-readable rules, and at least one computer-readable semantic tags of the at least one computer-readable XML-compliant data document;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one processor to display a result of a validation of the at least one computer-readable XML-compliant data document;

code stored on the at least one non-transitory computer readable medium and configured to cause the at least one processor to develop a report, by:

identifying the at least one computer-readable semantic tag that describes the semantic meaning of a data value included in the at least one computer-readable XML-compliant data document, and

retrieving data from one or more sources to represent the at least one data value in the report.

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| Claim 29 Elements | Applicability |
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| <p>A computer program product embodied on at least one non-transitory computer readable medium and configured to cause at least one hardware processor to operate, the computer program product comprising:</p> | <p>Users of an XBRL validator use <i>a computer program product embodied on at least one non-transitory computer readable medium and configured to cause at least one hardware processor to operate, the computer program product.</i></p> <p>Note: Any entity using XBRL on an official basis requires use of an XBRL validator to ensure that an XBRL document complies with relevant rules set forth by the XBRL standard.</p> <p>Upon information and belief, the United States Department of Transportation (DOT) and/or Office of Management and Budget (OMB) validate XBRL filings made to various federal agencies and organizations and infringe at least claim 29 of the '842 patent in violation of 35 U.S.C. § 271(a) by using the patented invention to, <i>inter alia</i>, process multiple XBRL-compliant filings. See pertinent excerpt(s) below illustrating applicability to the USDOT/OMB Act Information Model Schema (DAIMS), for example:</p> <p style="text-align: center;">DAIMS leverages and aligns with the following federal guidance and architecture:</p> <ul style="list-style-type: none"> • eXtensible Business Reporting Language (XBRL) – an open international standard for business reporting. XBRL enables business reporting to move between the physical and digital manner <p>https://fiscal.treasury.gov/files/data-transparency/DAIMS-Architecture-v1.4.pdf</p> <p>https://fiscal.treasury.gov/data-transparency/DAIMS-current.html</p> |
| <p>code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document that includes: a plurality of data values, and a plurality of computer-readable semantic relationships between the data values, where the at least one computer-readable data document includes a plurality of hierarchical relationships between the data values.</p> | <p>Users of an XBRL validator use <i>code stored on the at least one non-transitory computer readable medium and configured to cause the at least one hardware processor to identify at least one computer-readable Extensible Markup Language (XML)-compliant data document that includes: a plurality of data values, and a plurality of computer-readable semantic relationships between the data values, where the at least one computer-readable data document includes a plurality of hierarchical relationships between the data values.</i></p> |

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| <p>Language (XML)-compliant data document that is eXtensible Business Reporting Language (XBRL)-compliant and includes:</p> <p>a plurality of line items with a plurality of data values, and</p> <p>a plurality of computer-readable semantic tags that describe a semantic meaning of the data values, where the at least one computer-readable XML-compliant data document is capable of including multiple hierarchical relationships between two of the plurality of line items;</p> | <p><i>plurality of line items</i>. See excerpt(s) below, for example (emphasis added):</p> <p>Note: As set forth below, XBRL documents are required by the XBRL standard to be compliant and include a plurality of line items with a plurality of data values, and computer-readable semantic tags.</p> <p>“In XBRL terminology, a concept is a definition of a reporting term. Concepts are defined in the XML Schema [SCHEMA-1] element definitions. In the taxonomy schema a concept is defined by a name and a type. The type defines the kind of data types allowed for facts measured against the concept definition. For example, a “cash” concept would typically have a monetary type. This declares that when cash is reported, its value will be monetary. In contrast, an “accountingPoliciesNote” concept would typically have a string type so that, when “accountingPoliciesNote” is reported in an XBRL instance, its value would be interpreted as a string of characters. Additional constraints on how concepts can be used are defined in the additional XBRL attributes on the XML Schema [SCHEMA-1] element definitions. The linkbases in a taxonomy further document the meaning of the concepts...The linkbases in a taxonomy further document the meaning of the concepts by expressing relationships between concepts (inter-concept relationships) and by providing documentation to their documentation.”</p> <p>http://www.xbrl.org/Specification/xbrl-recommendation-2003-12-31+corrected-2005-12-31/25.htm#_Toc202578211</p> <p>“The core XBRL specifications (see XBRL Essentials) define validation constraints that XBRL processors must impose on all XBRL reports. These enforce not only basic syntax but also ensure that the reports comply with the definitions in the taxonomy.”</p> <p>http://specifications.xbrl.org/validation.html</p> <p>Note: As set forth below, XBRL documents are required by the XBRL standard to be compliant and be capable of including multiple hierarchical relationships between</p> |
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