

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

EXHIBIT X

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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 connected to 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; the at least one 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 multiple semantic tags that describes the semantic meaning of at least one of the data values included in 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 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

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

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 tag 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 the 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.

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

Claim 29 Elements	Applicability
<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. An XBRL document complies with relevant rules set forth by the XBRL standard.</p> <p>Upon information and belief, the Federal Energy Regulatory Commission (FERC) and the Department of Energy (DOE) validate XBRL filings made to those organizations in violation of at least claim 29 of the '842 patent in violation of 35 U.S.C. § 271(a) by using the claimed invention to, <i>inter alia</i>, process multiple XBRL-compliant filings. See pertinent evidence below illustrating applicability to the FERC/DOE Taxonomy Architecture, for example, https://xbrl.us/home/filers/ferc-reporting/tools/.</p> <p>“The FERC Taxonomy Architecture follows rules defined by XBRL International specifications and best practices established by XBRL US domain steering committee. Adherence to these recommendations ensures that taxonomies using the Architecture are fully XBRL 2.1 compliant.”</p> <p>“Rendering Templates</p> <p>Because the data collected by FERC has been historically forms based, the taxonomy structure reflects the structure of the Forms. The taxonomy includes html templates and a rendering schedule that can be processed with an XBRL instance file and taxonomy entry point to render a representation of the form. The templates will render an XHTML version of the form instance in an inline XBRL format. The rendering templates are defined as labels in the taxonomy and are defined as labels of the Schedule abstract element that is at the presentation root of every schedule.</p> <p>Validations</p> <p>The taxonomy includes validations to ensure the quality of data submitted. The validations are grouped by form and schedule, with sets of validations that are applicable to</p>

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

	<p>form. Validations defined for one schedule will also run on other schedules where the schedule is the same. All validations are expressed using the XULE syntax.”</p> <p>“3.9 Validations</p> <p>The taxonomy includes validations represented as rules. A filing should validate these rules to be successfully filed. Each form has a set of validation rules applicable to it. In addition, there are validation rules that apply to all forms. These are organizational validation rules do not need to be duplicated by the taxonomy manager.</p> <p>The validation rules are expressed as XULE rules and are maintained by the taxonomy author.”</p> <p>“5 Form Rendering</p> <p>5.1 Overview</p> <p>When an XBRL filing is made to the FERC one of the functions that needs to be performed is to create a human readable version of the XBRL instance that looks like a traditional form. The following figure shows the process flow of a filing and where form rendering occurs:</p>
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