

Claim Charts for U.S. Patent 10,423,708

EXHIBIT DD

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

1. A non-transitory computer readable storage medium storing one or more programs, the one or more programs which, when executed by an electronic device, cause the electronic device to:

generate at least one computer-readable Extensible Markup Language (XML)-compliant data document that is in a language that extends XML for reporting and that is not XML, Hypertext Markup Language (HTML), Extensible Style Sheet Language (XSL), Standard Generalized Markup Language (SGML), the at least one computer-readable XML-compliant data document

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 computer-readable XML-compliant data document is capable of including multiple hierarchical relationships between the plurality of line items;

cause a parsing of the at least one computer-readable XML-compliant data document, by causing:

access to the at least one computer-readable XML-compliant data document, and

identification of 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;

cause access to a plurality of computer-readable rules including:

a first computer-readable rule,

a second computer-readable rule, and

a third computer-readable rule;

cause processing of the at least one computer-readable XML-compliant data document, by causing:

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identification of at least a subset of the computer-readable rules including at least one of:

the first computer-readable rule,

the second computer-readable rule, or

the third computer-readable rule; and

processing of 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;

causing display of a result of a validation of the at least one computer-readable XML-compliant data document;

causing output of a report, by causing:

identification of 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

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

10. A method, comprising:

at an electronic device:

generating at least one computer-readable Extensible Markup Language (XML)-compliant data document in a markup language that extends XML for reporting and that is not XML, Hypertext Markup Language (HTML), Extensible Markup Language (XHTML), or Standard Generalized Markup Language (SGML), the at least one computer-readable XML-compliant data document

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

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plurality of line items;

causing a parsing of the at least one computer-readable XML-compliant data document, by causing:

access to the at least one computer-readable XML-compliant data document, and

identification of the multiple hierarchical relationships between the two line items, and at least one of 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;

causing an access to a plurality of computer-readable rules including:

a first computer-readable rule,

a second computer-readable rule, and

a third computer-readable rule;

causing processing of the at least one computer-readable XML-compliant data document, by causing:

identification of at least a subset of the computer-readable rules including at least one of:

the first computer-readable rule,

the second computer-readable rule, or

the third computer-readable rule; and

processing of at least a portion of the data values of at least a portion of the plurality of line items of the at least one 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;

causing display of a result of a validation of the at least one computer-readable XML-compliant data document;

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causing output of a report, by causing:

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

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

17. A method, comprising:

at an electronic device:

generating at least one computer-readable Extensible Markup Language (XML)-compliant data document, eXtensible Business Reporting Language (XBRL), the at least one computer-readable XML-compliant data document

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, computer-readable XML-compliant data document is capable of including multiple hierarchical relationships, a plurality of line items;

causing a parsing of the at least one computer-readable XML-compliant data document, by causing:

access to the at least one computer-readable XML-compliant data document, and

identification of 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;

causing an access to a plurality of computer-readable rules including:

a first computer-readable rule,

a second computer-readable rule, and

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