

# EXHIBIT E



(12) **United States Patent**  
**Davis**

(10) **Patent No.:** **US 8,185,816 B2**  
(45) **Date of Patent:** **May 22, 2012**

(54) **COMBINING REUSABLE DATA MARKUP LANGUAGE DOCUMENTS**

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(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 892 days.

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(21) Appl. No.: **12/222,752**

(22) Filed: **Aug. 15, 2008**

(65) **Prior Publication Data**  
US 2009/0089657 A1 Apr. 2, 2009

**Related U.S. Application Data**

(62) Division of application No. 09/573,778, filed on May 18, 2000, now Pat. No. 7,421,648.

(60) Provisional application No. 60/135,525, filed on May 21, 1999, provisional application No. 60/183,152, filed on Feb. 17, 2000.

(51) **Int. Cl.**  
**G06F 17/00** (2006.01)

(52) **U.S. Cl.** ..... **715/209; 715/234**

(58) **Field of Classification Search** ..... **715/209**  
See application file for complete search history.

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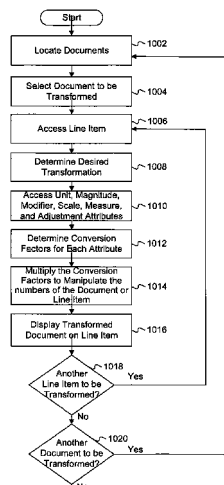
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(57) **ABSTRACT**

Methods and systems provide a computer markup language, referred to as Reusable Data Markup Language ("RDML"), and a data viewer for retrieving, manipulating and viewing documents and files in the RDML format that may be stored locally or over a network (e.g., the Internet). Generally, RDML permits the browsing and manipulation of numbers, as opposed to text and images like in HTML, and does so by including attributes describing the meaning of the numbers to be attached to the numbers. Documents compliant with the markup language encapsulate machine-readable documentation with numbers and data, and permit the data viewer to act as a combination web browser and spreadsheet to automatically read, interpret and manipulate the numbers and data. Furthermore, the methods and systems merge or combine RDML documents that have different data formats to produce a single data set for display.

**27 Claims, 40 Drawing Sheets**



## US 8,185,816 B2

Page 2

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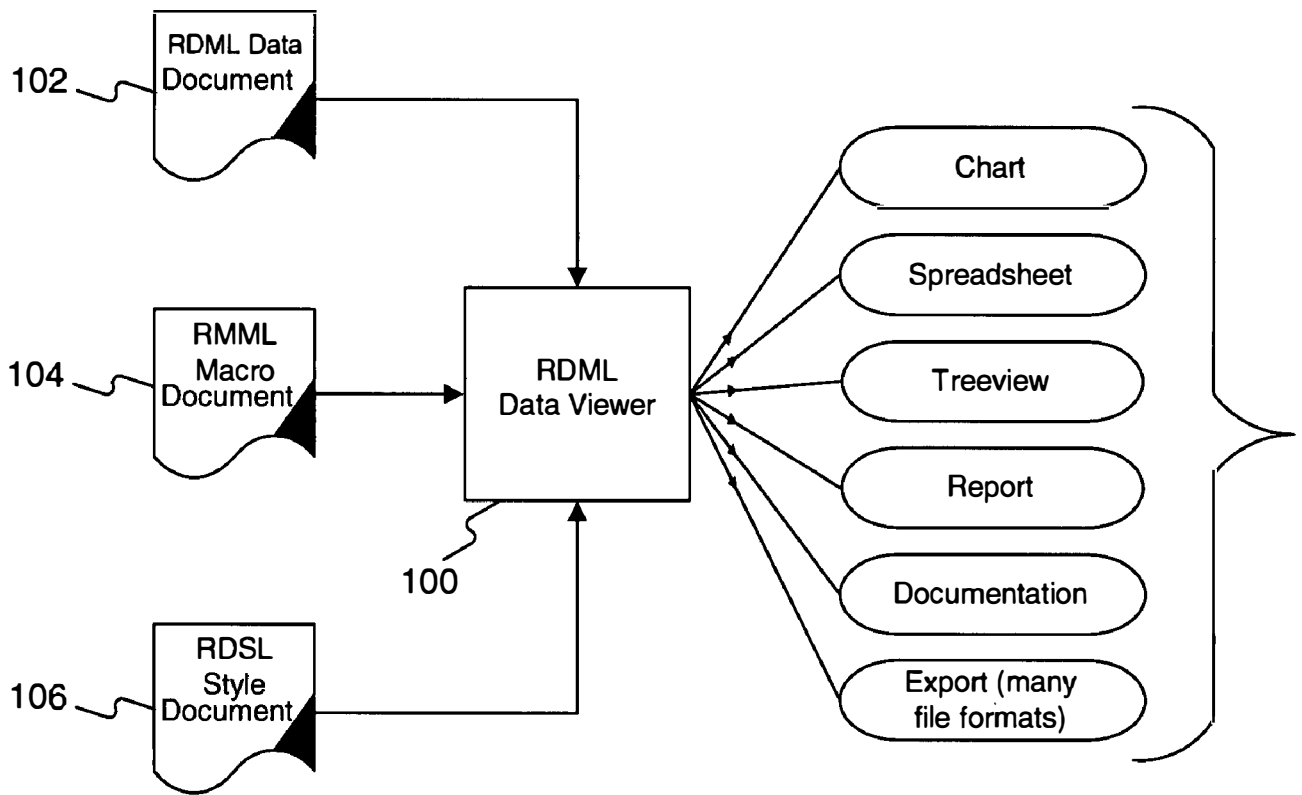
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**FIG. 1**

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