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(12) **United States Patent**
Chadha et al.(10) **Patent No.:** **US 10,114,899 B2**(45) **Date of Patent:** ***Oct. 30, 2018**(54) **REAL-TIME AND ADAPTIVE DATA MINING**(71) Applicant: **Rule 14**, Santa Monica, CA (US)(72) Inventors: **Sharon Gill Chadha**, Santa Monica, CA (US); **Xin Cheng**, San Diego, CA (US); **Parvinder Chadha**, Santa Monica, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **14/960,306**(22) Filed: **Dec. 4, 2015**(65) **Prior Publication Data**

US 2016/0085822 A1 Mar. 24, 2016

Related U.S. Application Data

(63) Continuation-in-part of application No. 13/928,313, filed on Jun. 26, 2013, now Pat. No. 9,229,977.

(60) Provisional application No. 61/679,024, filed on Aug. 2, 2012.

(51) **Int. Cl.****G06F 7/00** (2006.01)**G06F 17/30** (2006.01)**G06F 17/27** (2006.01)**G06Q 10/02** (2012.01)**G06Q 50/00** (2012.01)**G06Q 30/00** (2012.01)(52) **U.S. Cl.**CPC **G06F 17/30867** (2013.01); **G06F 17/2785** (2013.01); **G06F 17/30516** (2013.01); **G06F 17/30672** (2013.01); **G06Q 10/025** (2013.01); **G06Q 30/016** (2013.01); **G06Q 50/01** (2013.01)(58) **Field of Classification Search**CPC **G06F 17/30672**; **G06F 17/30442**; **G06F 17/307**USPC **707/722**, **765**

See application file for complete search history.

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Primary Examiner — Michael Pham(74) *Attorney, Agent, or Firm* — Seyfarth Shaw LLP;
Puya Partow-Navid(57) **ABSTRACT**

A method of analyzing data is presented. The method includes generating a query based on a topic of interest, expanding search terms of the query, executing the query on one or more data sources, monitoring a specific data source selected from the one or more data sources. The monitoring is performed to monitor for matches to the query.

20 Claims, 14 Drawing Sheets