



US008934535B2

(12) **United States Patent**
Fallon et al.

(10) **Patent No.:** **US 8,934,535 B2**
(45) **Date of Patent:** **Jan. 13, 2015**

(54) **SYSTEMS AND METHODS FOR VIDEO AND AUDIO DATA STORAGE AND DISTRIBUTION**

USPC 375/240, E7.094; 707/E17.001, 736,
707/781-788; 711/E12.008, 154; 709/247;
708/203

(71) Applicant: **Realtime Data LLC**, Armonk, NY (US)

See application file for complete search history.

(72) Inventors: **James J. Fallon**, Armonk, NY (US);
Stephen J. McErlain, New York, NY (US)

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,394,352 A 7/1968 Wernikoff et al.
3,490,690 A 1/1970 Apple et al.

(Continued)

FOREIGN PATENT DOCUMENTS

DE 4127518 2/1992
EP 0 164677 12/1985

(Continued)

OTHER PUBLICATIONS

Realtime's Response in Opposition to the Defendants' Joint Objections to Report and Recommendation of Magistrate Regarding Motion for Partial Summary Judgment of Invalidity for Indefiniteness, in *Realtime Data, LLC d/b/a/IXO v. Packeteer, Inc. et al.*, Civil Action No. 6:08-cv-00144-LED; U.S. District Court for the Eastern District of Texas, dated Jul. 27, 2009, 15 pages.

(Continued)

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

(21) Appl. No.: **14/033,245**

(22) Filed: **Sep. 20, 2013**

(65) **Prior Publication Data**

US 2014/0023135 A1 Jan. 23, 2014

Related U.S. Application Data

(63) Continuation of application No. 13/154,239, filed on Jun. 6, 2011, now Pat. No. 8,553,759, which is a continuation of application No. 12/123,081, filed on May 19, 2008, now Pat. No. 8,073,047, which is a

(Continued)

(51) **Int. Cl.**
H04N 7/12 (2006.01)
H03M 7/30 (2006.01)

(52) **U.S. Cl.**
CPC **H03M 7/6094** (2013.01); **H03M 7/30** (2013.01); **H03M 7/3084** (2013.01)
USPC **375/240.01**

(58) **Field of Classification Search**
CPC . H03M 7/30; H03M 7/3084; G06F 17/30153; G06F 2212/40; G06F 12/0246; G06F 17/30501; G06F 3/0679; G06F 3/0688; H04L 69/04; Y10S 707/99931; Y10S 707/99942; H04W 28/06; H04N 1/00236; H04N 2201/3283; G11C 29/40

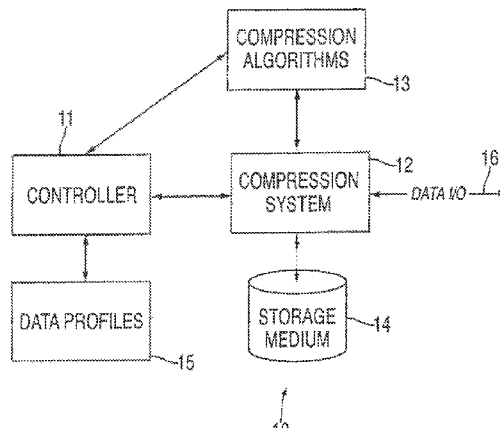
Primary Examiner — Tesfaldet Bocure

(74) *Attorney, Agent, or Firm* — Sterne, Kessler, Goldstein & Fox P.L.L.C.

(57) **ABSTRACT**

Data compression and decompression methods for compressing and decompressing data based on an actual or expected throughput (bandwidth) of a system. In one embodiment, a controller tracks and monitors the throughput (data storage and retrieval) of a data compression system and generates control signals to enable/disable different compression algorithms when, e.g., a bottleneck occurs so as to increase the throughput and eliminate the bottleneck.

30 Claims, 4 Drawing Sheets



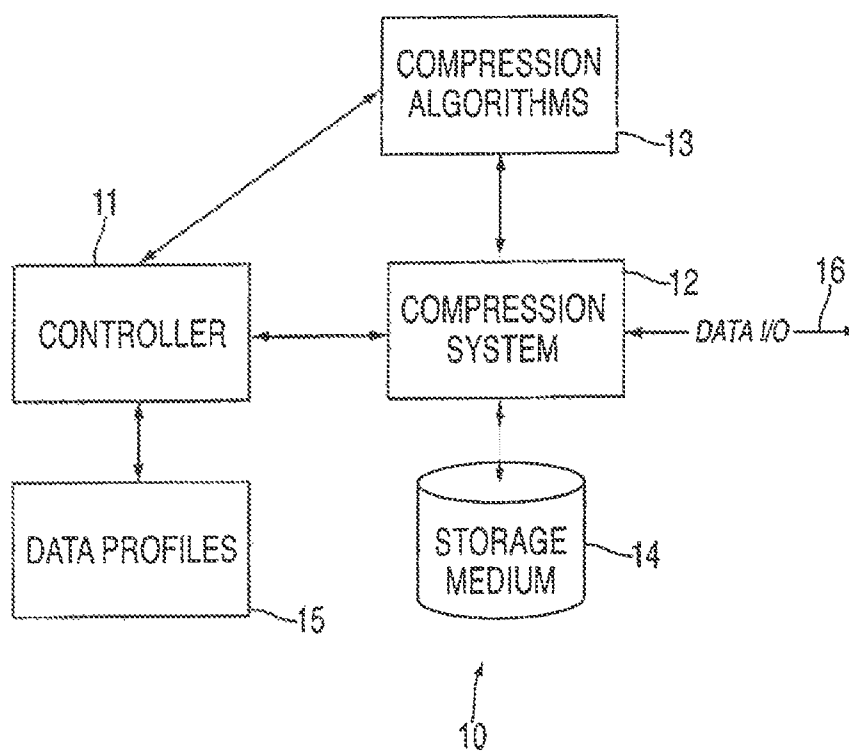


FIG. 1

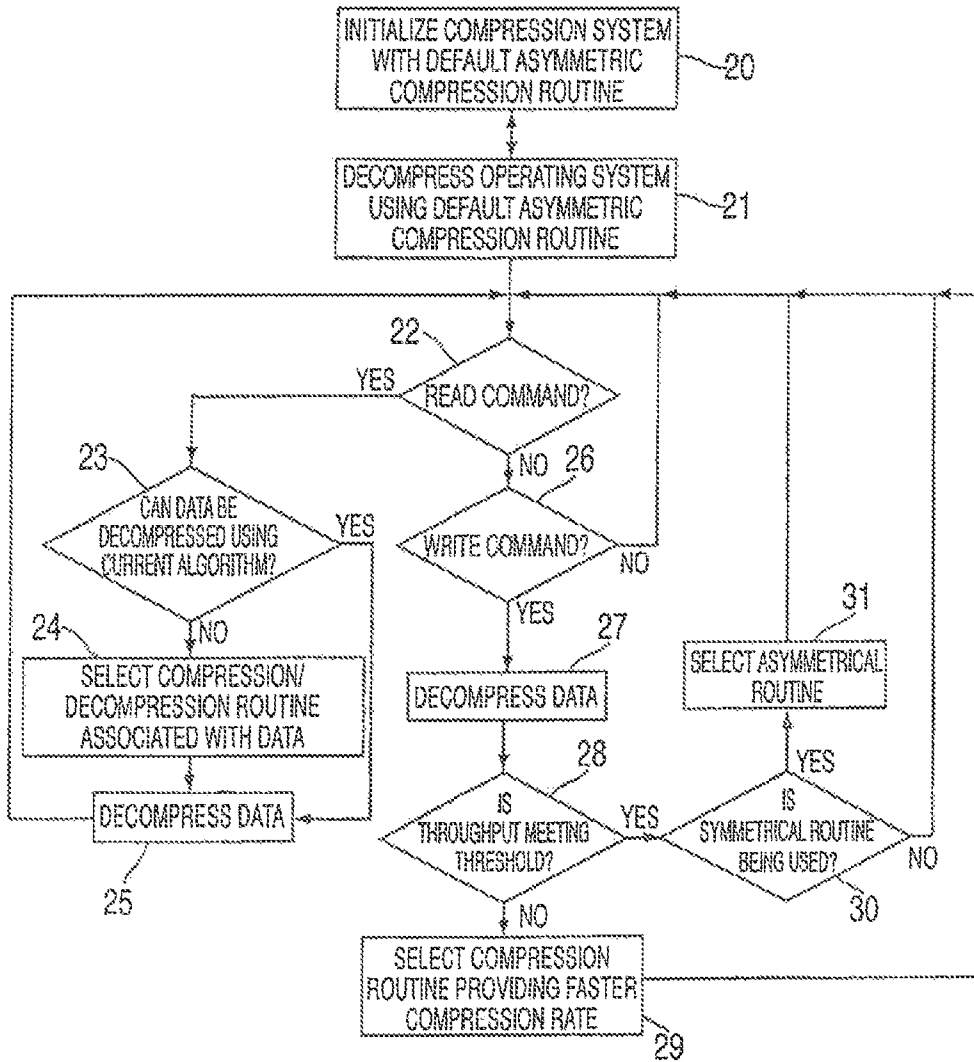


FIG. 2

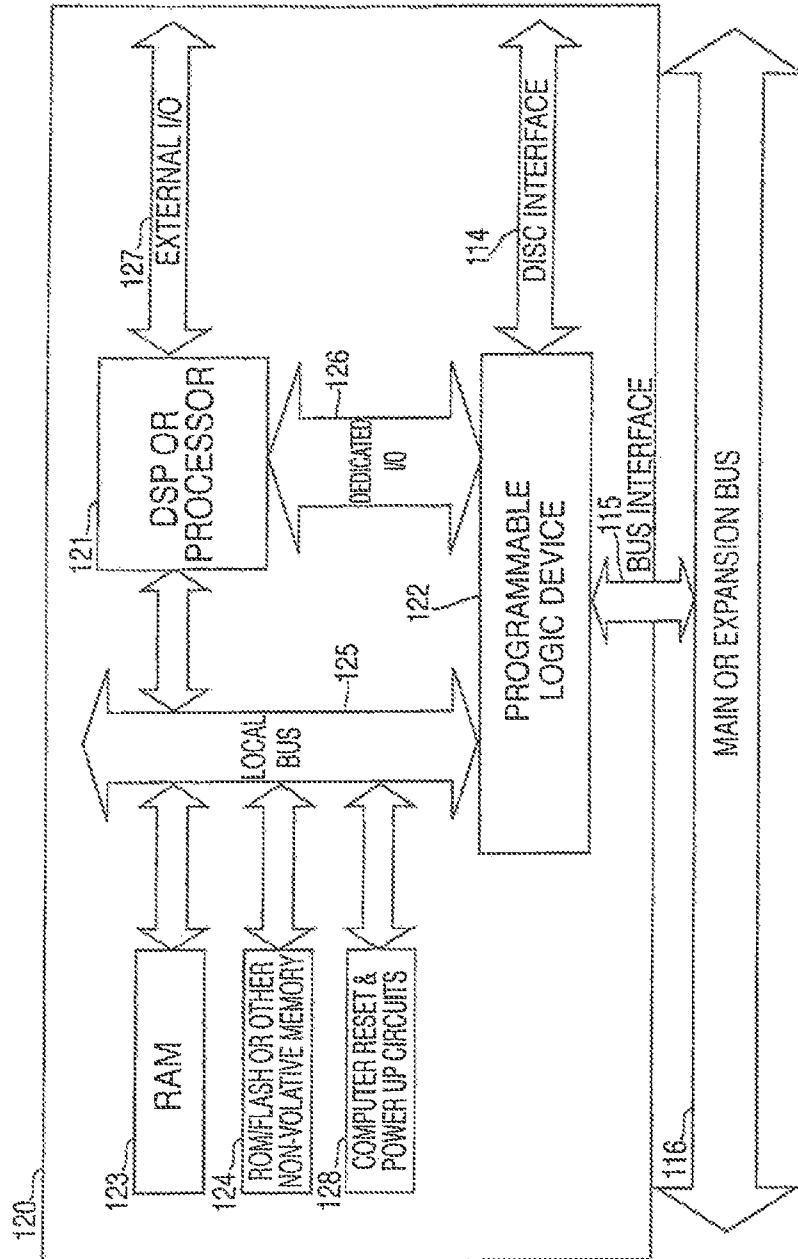


FIG. 3

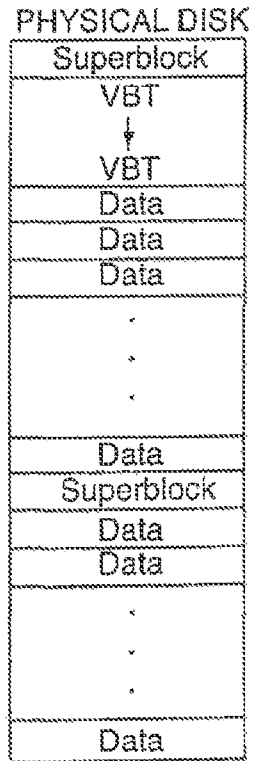


FIG. 4A

SECTOR MAP DEFINITION

SECTOR MAP

Type	2 bits
C Type	3 bits
C Info	19 bits
Sector Count	8 bits
LBA	32 bits

FIG. 4B

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.