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

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(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);  
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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 0 days.

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

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

(65) **Prior Publication Data**

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**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

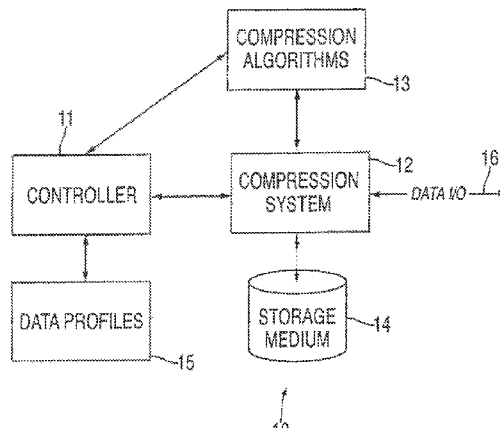
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(57) **ABSTRACT**

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**



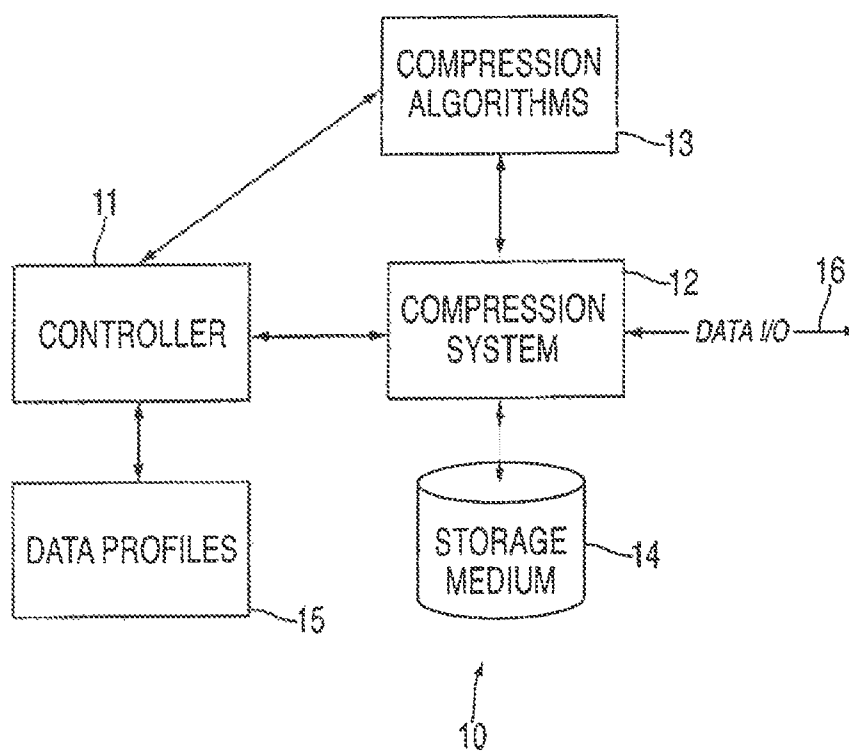


FIG. 1

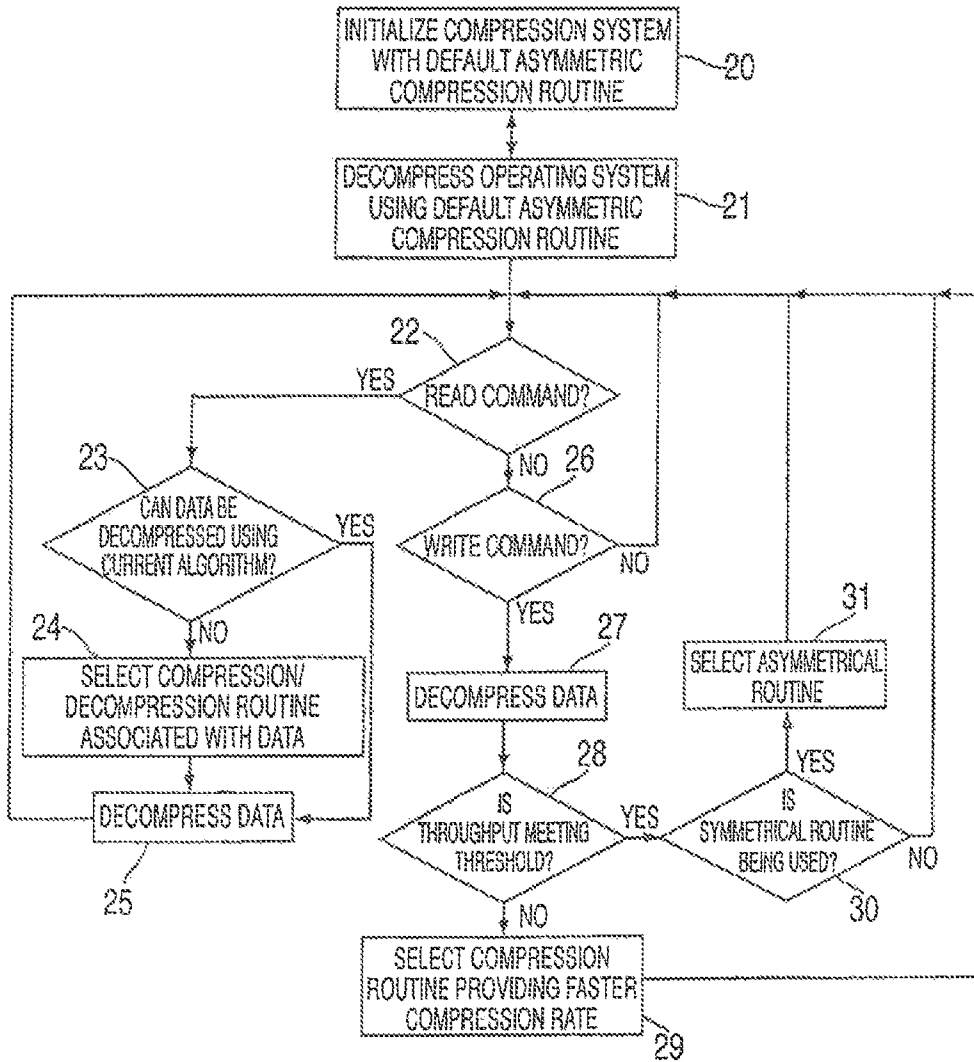


FIG. 2

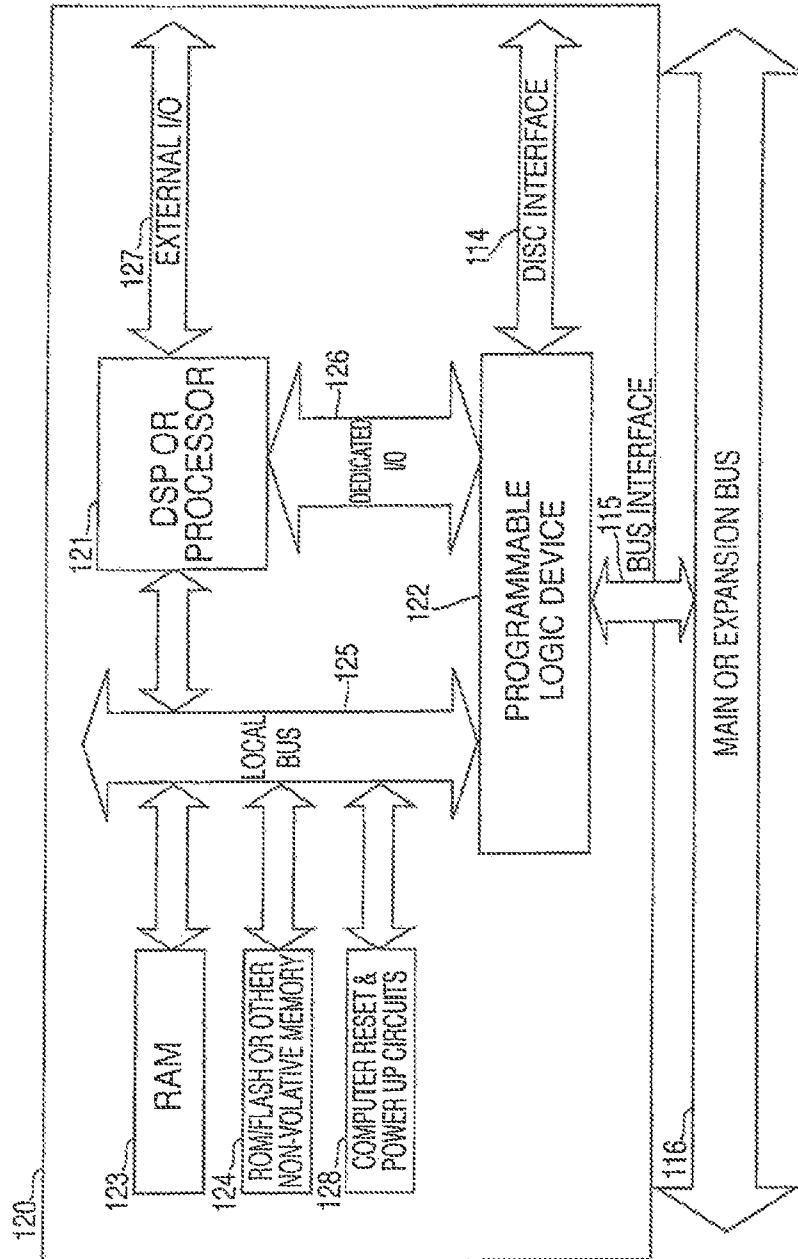


FIG. 3

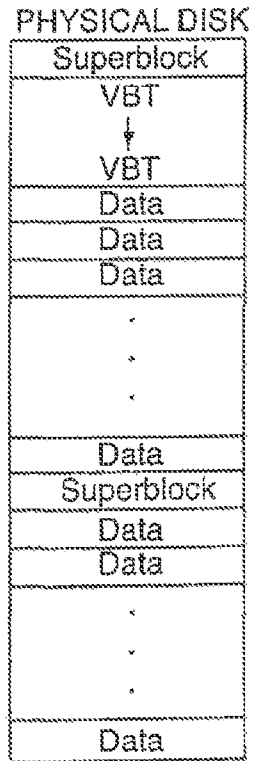


FIG. 4A

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

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