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Fallon et al.

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

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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.

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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)

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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

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

See application file for complete search history.

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

(57) **ABSTRACT**

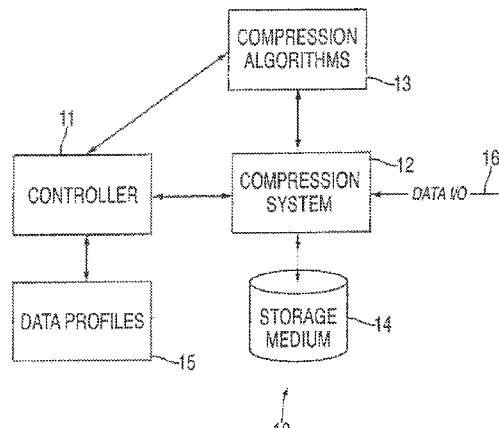Data compression and decompression methods for compressing and decompressing data based on an actual or expected throughput (bandwidth) of a system. In one embodiment, a controller tracks and monitors the throughput (data storage and retrieval) of a data compression system and generates control signals to enable/disable different compression algorithms when, e.g., a bottleneck occurs so as to increase the throughput and eliminate the bottleneck.
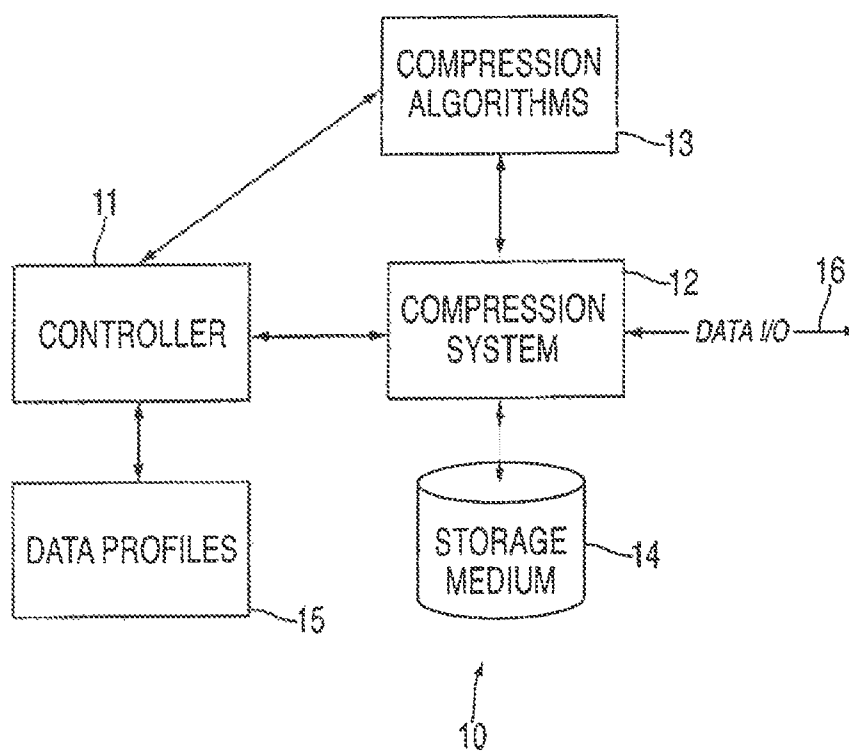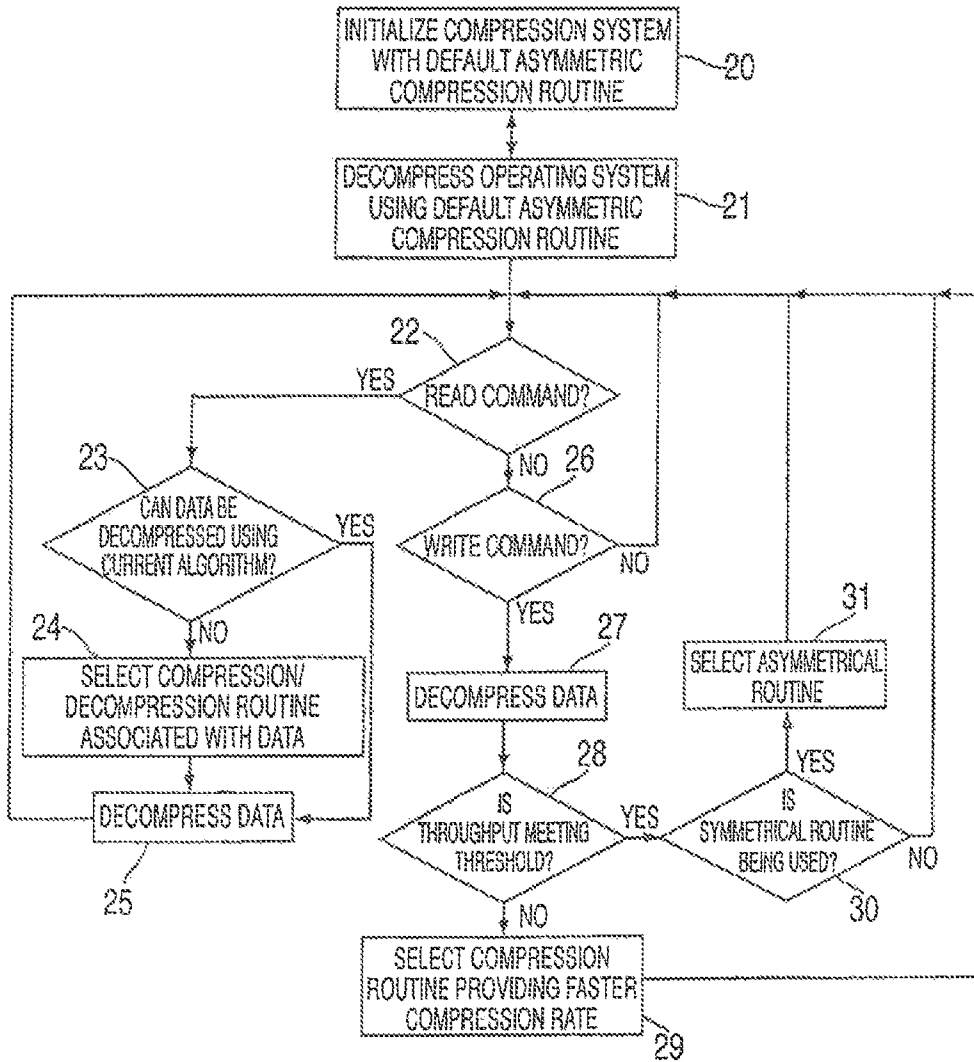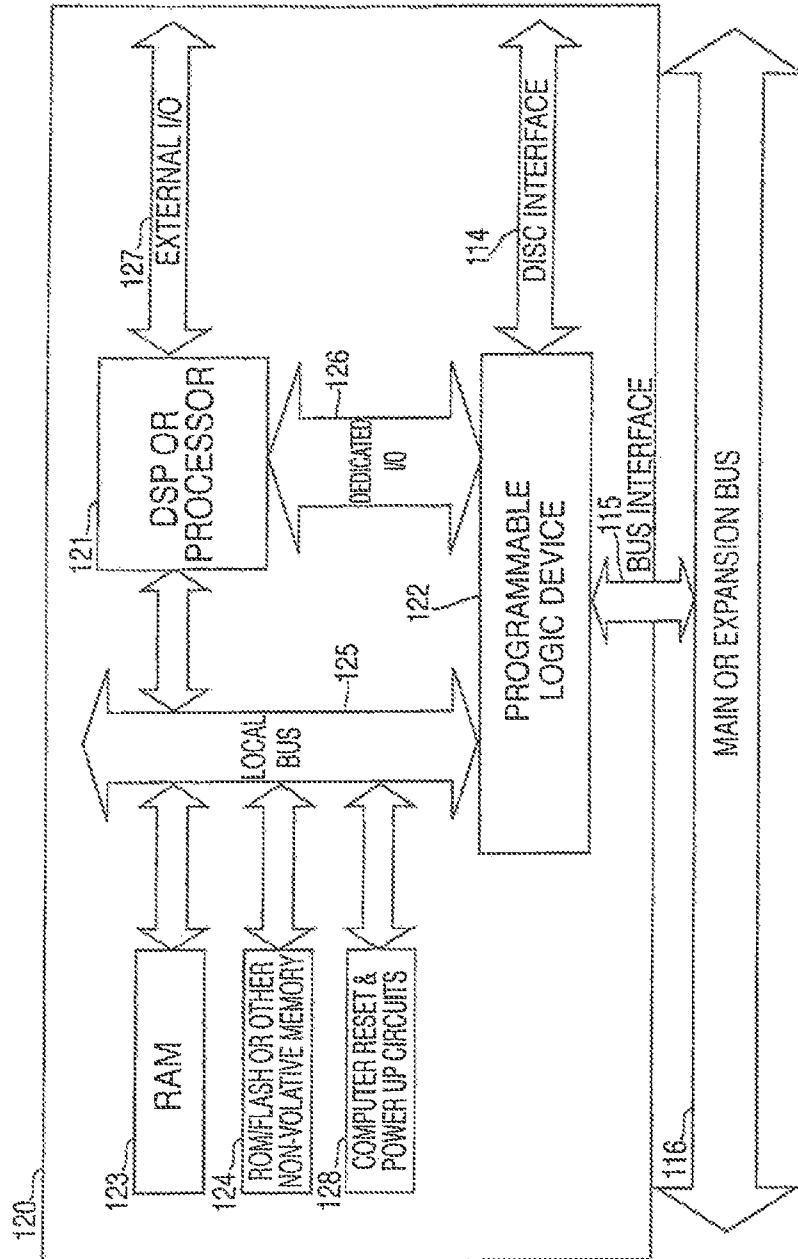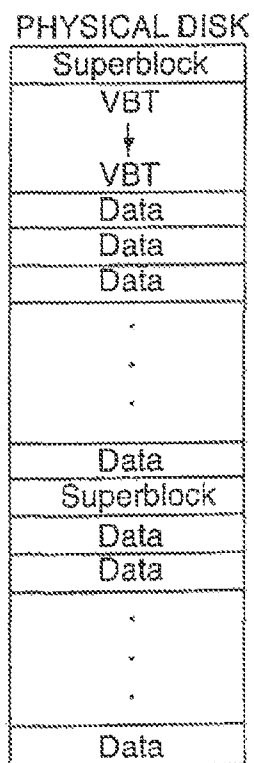
30 Claims, 4 Drawing Sheets

FIG. 1

FIG. 2

FIG. 3

PHYSICAL DISK

Superblock
VBT
↓
VBT
Data
Data
Data
.
.
.
Data
Superblock
Data
Data
.
.
.
Data

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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