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Fallon

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(54) **SYSTEMS AND METHODS FOR DATA COMPRESSION SUCH AS CONTENT DEPENDENT DATA COMPRESSION**

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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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(Continued)

Related U.S. Application Data

(63) Continuation of application No. 10/016,355, filed on Oct. 29, 2001, now Pat. No. 6,624,761, which is a continuation-in-part of application No. 09/705,446, filed on Nov. 3, 2000, now Pat. No. 6,309,424, which is a continuation of application No. 09/210,491, filed on Dec. 11, 1998, now Pat. No. 6,195,024.

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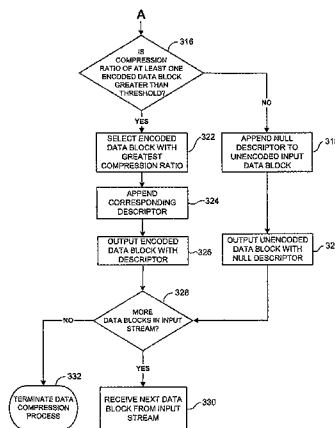
(57) **ABSTRACT**

(51) **Int. Cl.**
H03M 7/34 (2006.01)
(52) **U.S. Cl.** **341/51; 341/79**
(58) **Field of Classification Search** **341/50, 341/51, 67, 79, 75**
See application file for complete search history.

Systems and methods for providing fast and efficient data compression using a combination of content independent data compression and content dependent data compression. In one aspect, a method for compressing data comprises the steps of: analyzing a data block of an input data stream to identify a data type of the data block, the input data stream comprising a plurality of disparate data types; performing content dependent data compression on the data block, if the data type of the data block is identified; performing content independent data compression on the data block, if the data type of the data block is not identified.

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99 Claims, 34 Drawing Sheets



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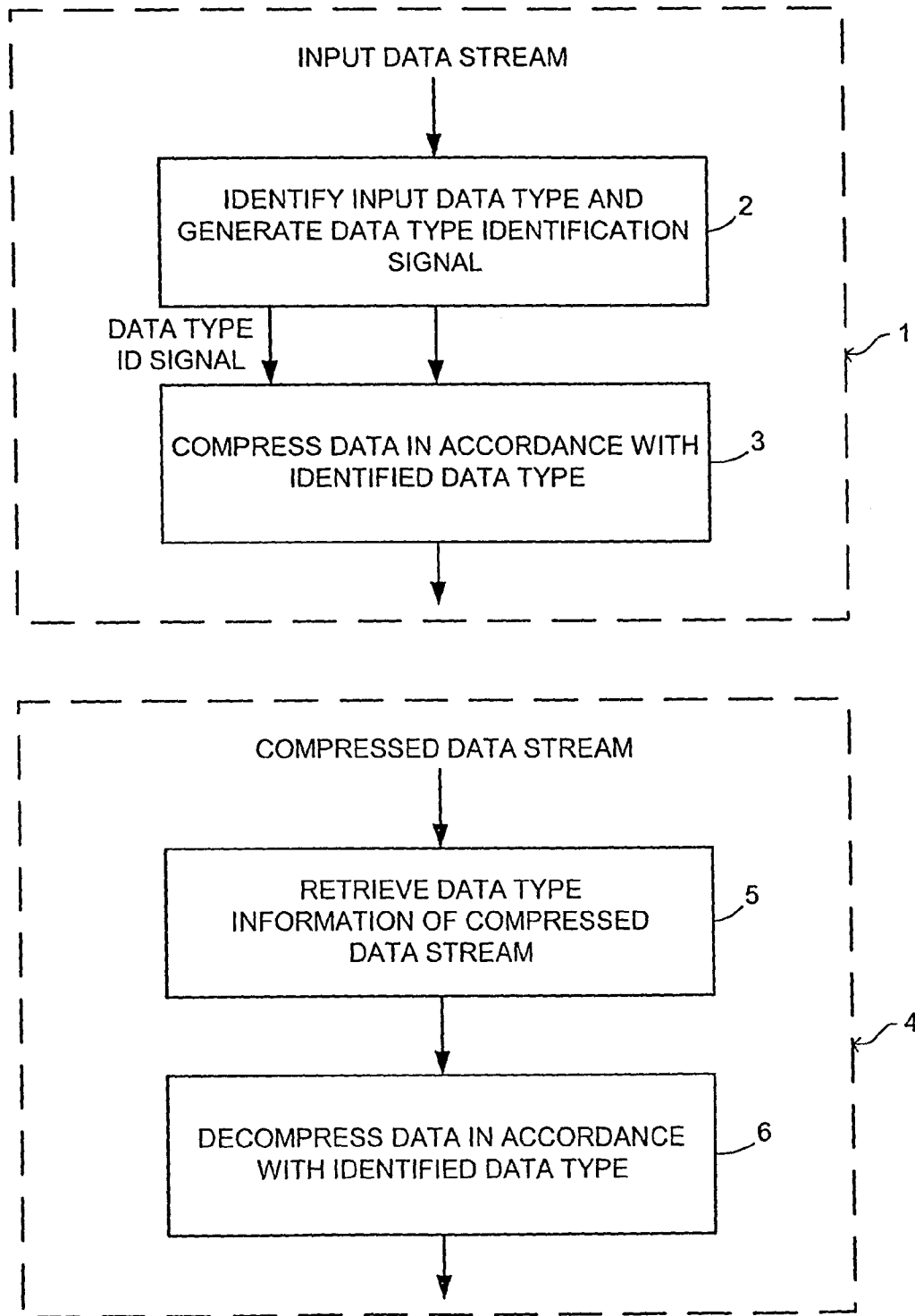


FIG. 1
PRIOR ART

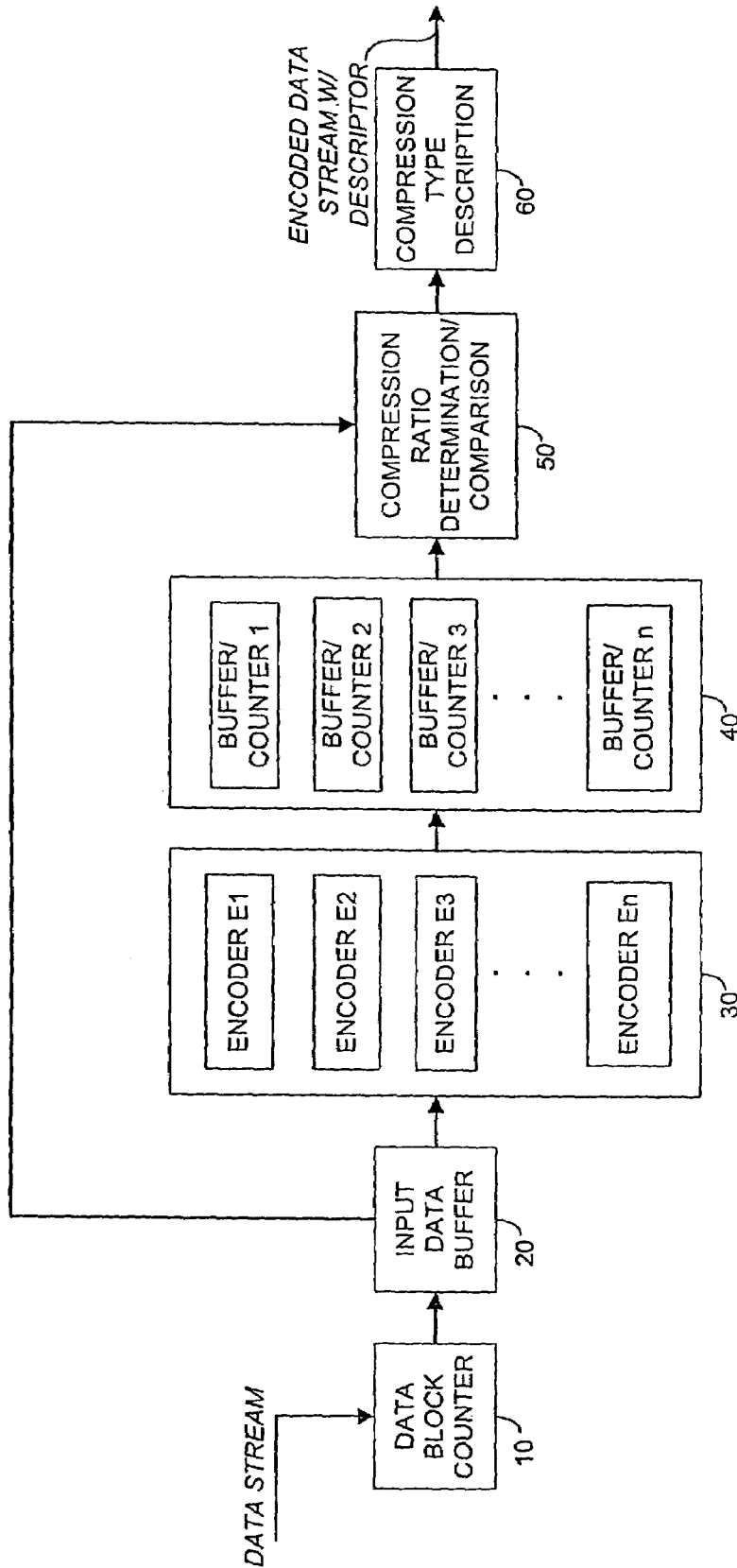


FIG. 2

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