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(54) Title: METHOD FOR PARTIONING AND ENCODING DATA

(57) Abstract

A dynamically configurable video signal processing system partitions and encodes data using a variable number of data segments and variable data resolution. The system partitions data into a variable number of data segments by predicting, as a function of the data rate, first and second distortion factors for the data partitioned into first and second numbers of data segments (515-530). The first and second distortion factors are mutuallly compared and the data is partitioned into the number of data segments which exhibits the lower distortion factor value. First and second distortion factors for the data encoded with first and second data resolutions are also predicted (515-530). The first and second distortion factors are similarly compared (540) and the data is encoded with the resolution exhibiting the lower distortion factor value.

