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**Divsalar et al.**

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(54) **INTERLEAVED SERIAL CONCATENATION FORMING TURBO-LIKE CODES**

(75) Inventors: **Dariush Divsalar**, Pacific Palisades, CA (US); **Robert J. McEliece**, Pasadena, CA (US); **Hui Jin**, Glen Gardner, NJ (US); **Fabrizio Pollara**, Lacanada, CA (US)

(73) Assignee: **California Institute of Technology**, Pasadena, CA (US)

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**Related U.S. Application Data**

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(51) **Int. Cl.**  
**H03M 13/29** (2006.01)

(52) **U.S. Cl.** ..... **714/755**

(58) **Field of Classification Search** ..... **714/755**  
See application file for complete search history.

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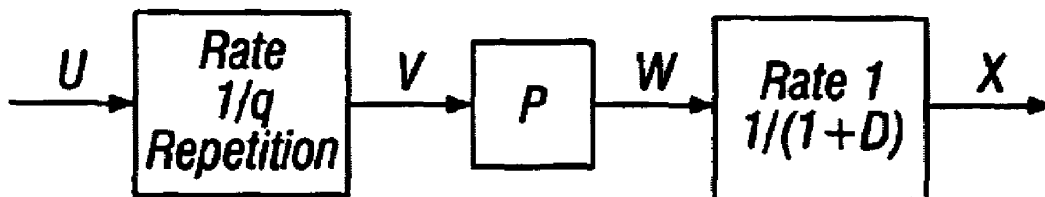
*Primary Examiner*—Stephen M. Baker

(74) *Attorney, Agent, or Firm*—Fish & Richardson P.C.

(57) **ABSTRACT**

A turbo-like code is formed by repeating the signal, coding it, and interleaving it. A serial concatenated coder is formed of an inner coder and an outer coder separated by an interleaver. The outer coder is a coder which has rate greater than one e.g. a repetition coder. The interleaver rearranges the bits. An outer coder is a rate one coder.

**46 Claims, 6 Drawing Sheets**



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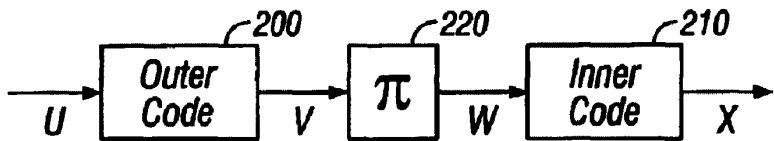
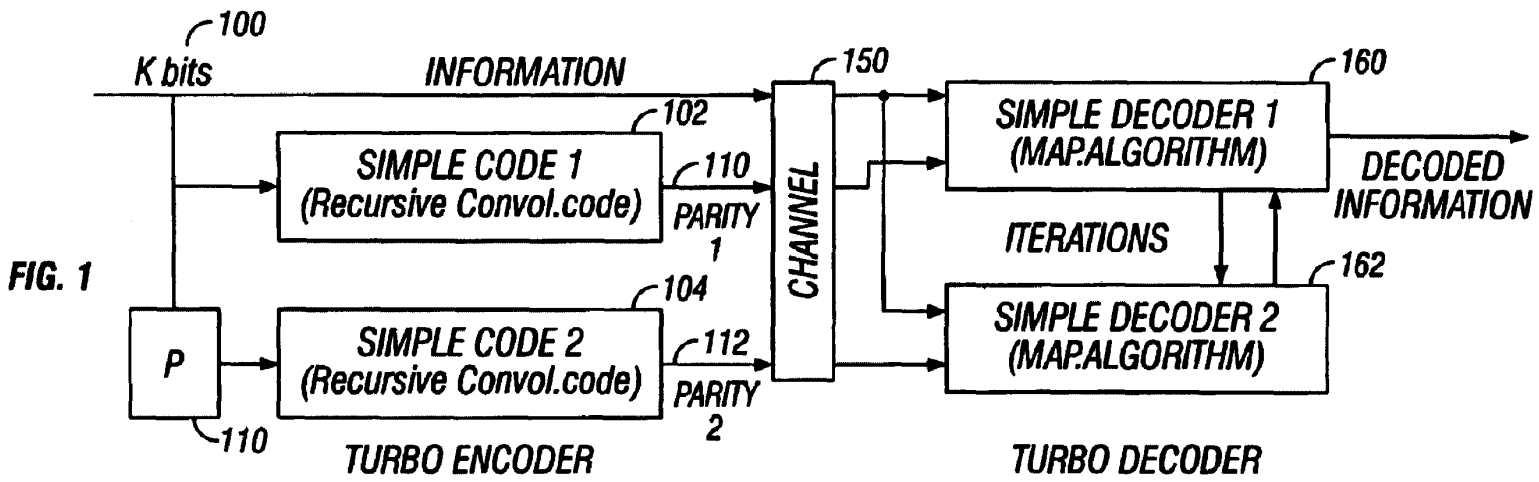
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**FIG. 2**

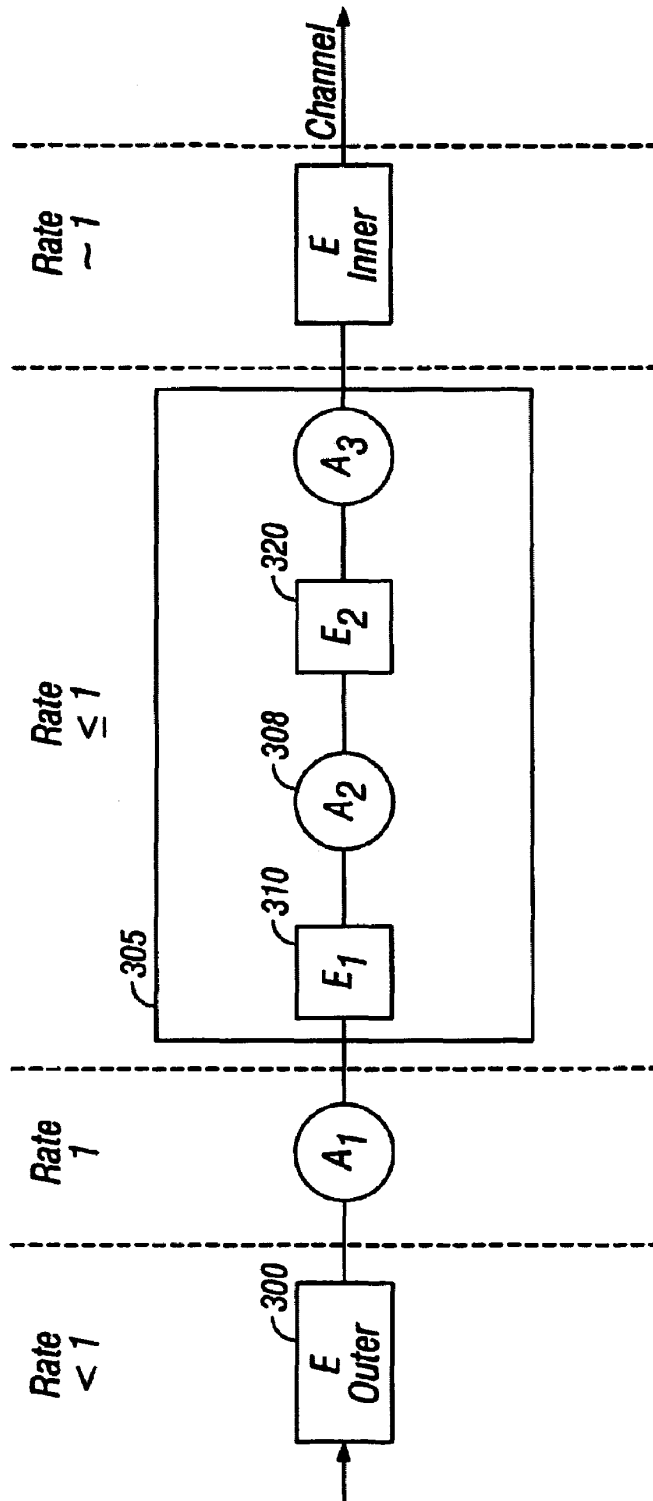


FIG. 3

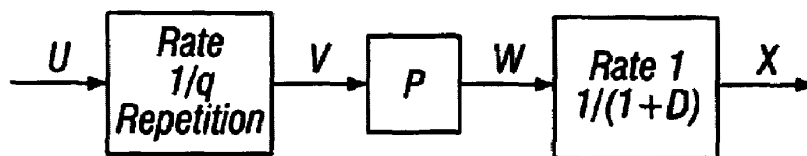


FIG. 4

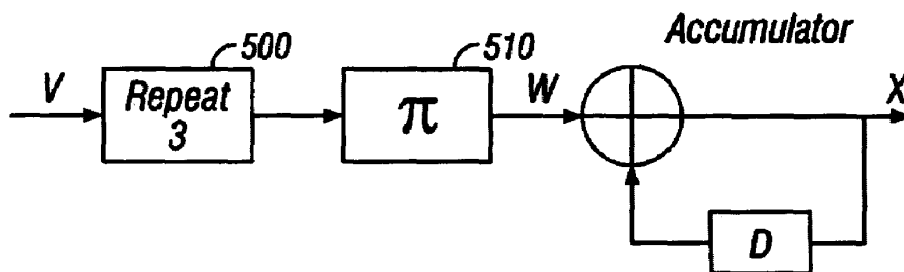


FIG. 5

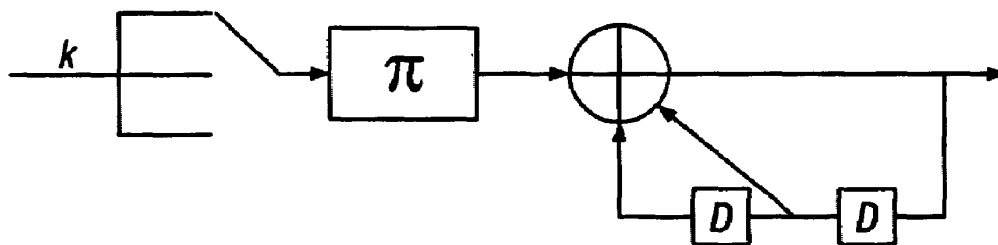


FIG. 6

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