



US007089477B1

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

(10) **Patent No.:** **US 7,089,477 B1**  
(45) **Date of Patent:** **Aug. 8, 2006**

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

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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 749 days.

(21) Appl. No.: **09/922,852**

(22) Filed: **Aug. 18, 2000**

**Related U.S. Application Data**

(60) Provisional application No. 60/149,871, filed on Aug. 18, 1999.

(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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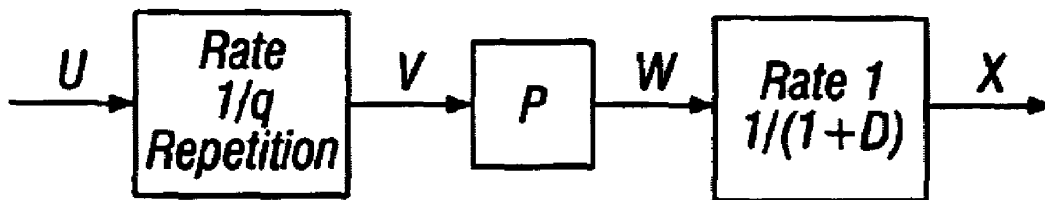
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(57) **ABSTRACT**

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.

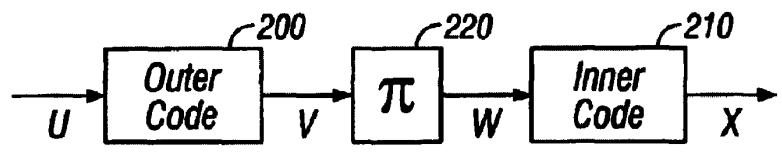
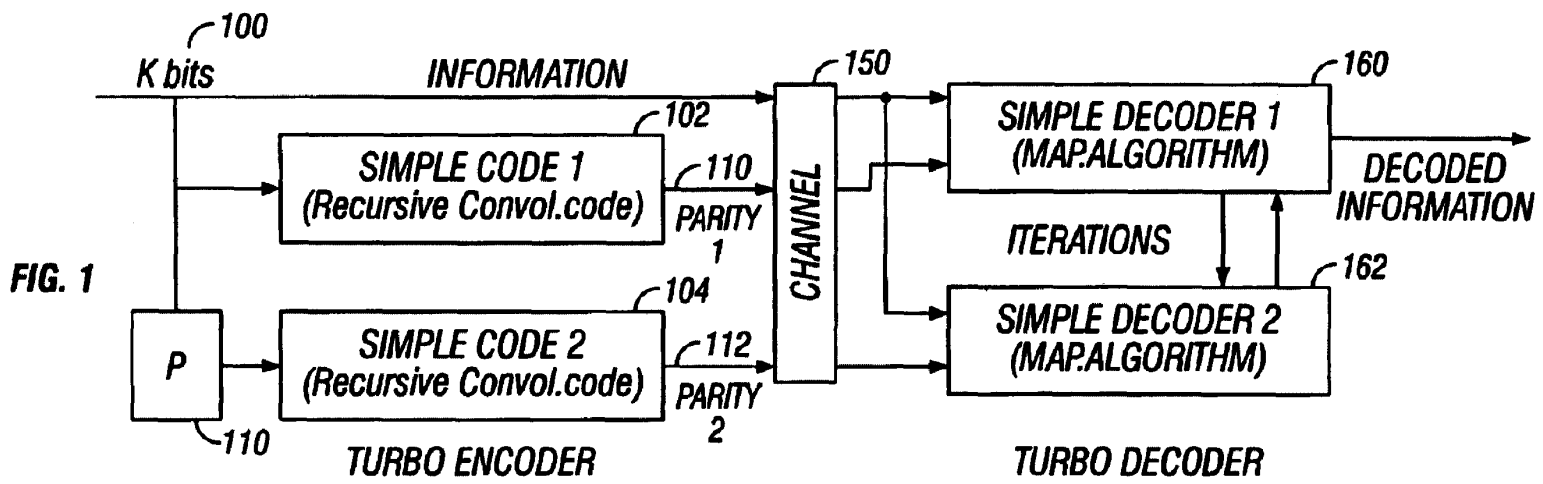
**46 Claims, 6 Drawing Sheets**



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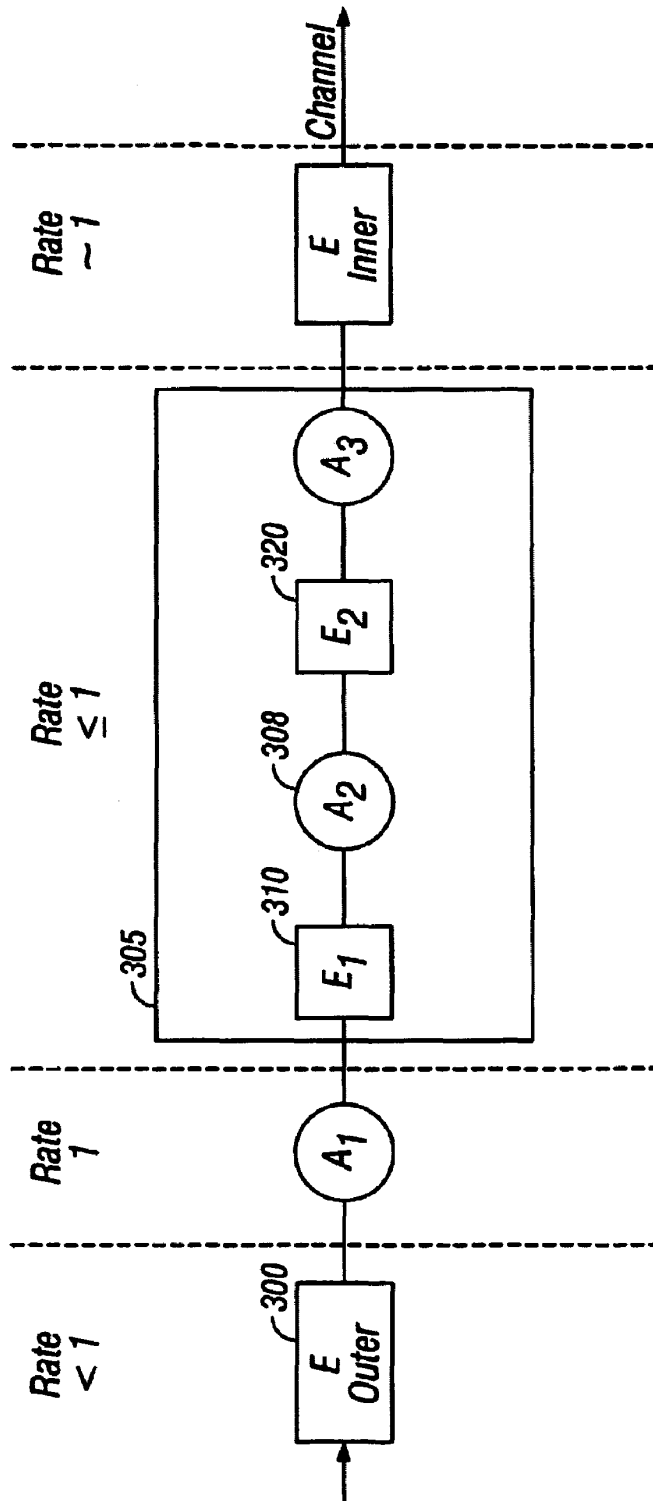


FIG. 3

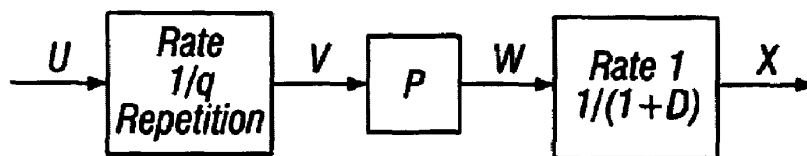


FIG. 4

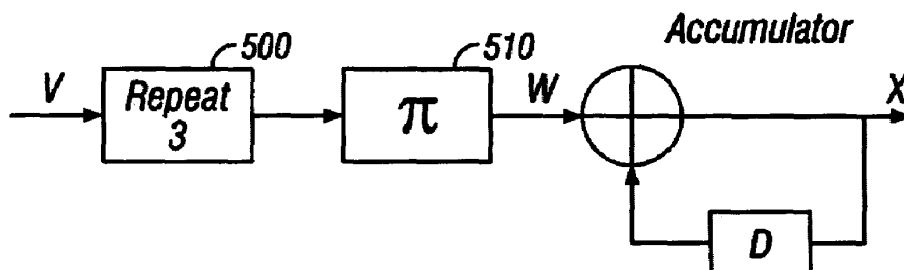


FIG. 5

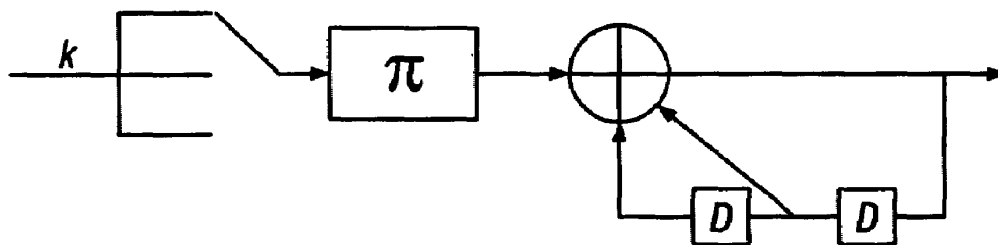


FIG. 6

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