Attorney's Docket No.: 06618-637001
Client's Ref. No.: CIT3220

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Applicant : Hui Jin et al.
Serial No. : 09/861,102
Filed : May 18, 2001

Art Unit : 2634
Examiner : Dac V. Ha

Title : SERIAL CONCATENATION OF INTERLEAVED CONVOLUTIONAL CODES FORMING TURBO-LIKE CODES

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attached to this facsimile communication cover sheet is an Amendment to the 03/04/2005 Office action and Transmittal Letter, faxed this 5th day of May, 2005, to the United States Patent and Trademark Office.

Respectfully submitted,

Date: May 5, 2005

BY JOHN F. CONROY REG. NO. 45,485

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Hui Jin et al.	Art Unit	: 2634
Serial No.	: 09/861,102	Examiner	: Dac V. Ha
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Title	: SERIAL CONCATENATION OF INTERLEAVED CONVOLUTIONAL CODES FORMING TURBO-LIKE CODES		

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TRANSMITTAL LETTER

Correspondence relating to this application is enclosed. The required fees are computed below. Please apply the excess claims fee to Deposit Account No. 06-1050. Please apply any charges not covered, or any credits, to Deposit Account No. 06-1050.

Total Claims	35	-	31	=	4	$100
Independent	4	-	4	=	0	$0
TOTAL FEE DUE						$100

Please apply the $100 fee to Deposit Account No. 06-1050.

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Date of Transmission

Signature

Carroll Allman
Typed or Printed Name of Person Signing Certificate

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AMENDMENT

In response to the Office action mailed March 4, 2005, please reconsider this application in light of the following:

Amendments to the claims reflected in the **Listing of Claims** beginning on page 2.

Remarks beginning on page 9.

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Carroll Allman
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Listing of Claims

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of encoding a signal, comprising:

obtaining a block of data in the signal to be encoded;

partitioning said data block into a plurality of sub-blocks, each sub-block including a plurality of data elements;

first encoding the data block to form a first encoded data block, said first encoding including repeating the data elements in different sub-blocks a different number of times;

interleaving the repeated data elements in the first encoded data block; and

second encoding said first encoded data block using an encoder that has a rate close to one.

2. (Original) The method of claim 1, wherein said second encoding is via a rate 1 linear transformation.

3. (Original) The method of claim 1, wherein said first encoding is carried out by a first coder with a variable rate less than one, and said second encoding is carried out by a second coder with a rate substantially close to one.

4. (Original) The method of claim 3, wherein the second coder comprises an accumulator.

5. (Original) The method of claim 4, wherein the data elements comprises bits.

6. (Original) The method of claim 5, wherein the first coder comprises a repeater operable to repeat different sub-blocks a different number of times in response to a selected degree profile.

7. (Original) The method of claim 4, wherein the first coder comprises a low-density generator matrix coder and the second coder comprises an accumulator.

8. (Original) The method of claim 1, wherein the second encoding uses a transfer function of $1/(1+D)$.

9. (Original) The method of claim 1, wherein the second encoding uses a transfer function of $1/(1+D+D^2)$.

10. (Original) The method of claim 1, wherein said second encoding utilizes two accumulators.

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