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JCS32 U.S. PTO
05/18/00

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR §1.53(c).

INVENTOR(S)					
Given Name (first and middle [if any])		Family Name or Surname		Residence (City and either State or Foreign Country)	
Hui		Jin		Pasadena, CA	
Aamod		Khandekar		Pasadena, CA	
Robert		McEliece		Pasadena, CA	
<input type="checkbox"/> Additional inventors are being named on the <u>0</u> separately numbered sheets attached hereto.					
TITLE OF THE INVENTION (280 characters max)					
SERIAL INTERCONNECTION OF A LOW-DENSITY GENERATOR CODE WITH A DIGITAL RECURSIVE FILTER					
CORRESPONDENCE ADDRESS					
Direct all correspondence to:					
<input checked="" type="checkbox"/> Customer Number: 20985			Place Customer Number Bar Code Label Here		
OR					
<input checked="" type="checkbox"/> Firm or Individual Name		Fish & Richardson P.C. (Southern California)			
Address		4350 La Jolla Village Drive, Suite 500 San Diego, CA 92122			
Country		United States	Telephone	(858) 678-5070	Fax (858) 678-5099
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification		Number of Pages	33	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Drawing(s)		Number of Sheets	0	<input type="checkbox"/> Other (specify)	
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)					
<input checked="" type="checkbox"/> A check or money order is enclosed to cover the filing fees.					
<input type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:				06-1050	FILING FEE AMOUNT (\$) \$150
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input type="checkbox"/> No.					
<input checked="" type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: Grant No. CCR-9804793					

JCS41 U.S. PTO
60/205095
05/18/00

Respectfully submitted,

Scott C. Harris
 Signature Bing ai
 Name Scott C. Harris, Reg. No. 32,030
 Date May 18, 2000
 Telephone No. (858) 678-5070
 Docket No. 06618/637001/CIT3220
 10034769.doc

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Date of Deposit May 18, 2000

Signature Derek W. Norwood

Typed Name of Person Signing Derek W. Norwood

PROVISIONAL APPLICATION FOR PATENT

under

37 CFR §1.53(c)

TITLE: SERIAL INTERCONNECTION OF A LOW-DENSITY
GENERATOR CODE WITH A DIGITAL RECURSIVE
FILTER

APPLICANT: HUI JIN, AAMOD KHANDEKAR AND ROBERT
MECLIECE

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May 18, 2000
Date of Deposit

Derek W. Norwood
Signature

Derek W. Norwood
Typed or Printed Name of Person Signing Certificate

Turbo-like Code Design: The game near channel capacity

Hui Jin

1

Irregular LDPC Codes

- Idea: Introduce irregularity into degree of variable nodes and check nodes.
- Binary erasure channel: Luby, Mitzenmacher, Shokrollahi, Spielman, 1997.
- AWGN, Binary symmetric channel: Richardson, Urbanke, Shokrollahi, 1999.

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