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PROV

PTO/SB/16 (2-98)

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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 Aamod Robert	Jin Khandekar McElice	Pasadena, CA Pasadena, CA Pasadena, CA

Additional inventors are being named on the 0 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:

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<input checked="" type="checkbox"/> Firm or Individual Name	Fish & Richardson P.C. (Southern California)				
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ENCLOSED APPLICATION PARTS (check all that apply)

<input checked="" type="checkbox"/> Specification	Number of Pages	<u>33</u>	<input type="checkbox"/> Small Entity Statement
<input type="checkbox"/> Drawing(s)	Number of Sheets	<u>0</u>	<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.	FILING FEE AMOUNT (\$)
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The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

No.
 Yes, the name of the U.S. Government agency and the Government contract number are: Grant No. CCR-9804793

Respectfully submitted,

Bing ai
Signature

Reg. No. 43,312
Name Scott C. Harris, Reg. No. 32,030

Date May 18, 2000

Telephone No. (858) 678-5070

Docket No. 06618/637001/CIT3220
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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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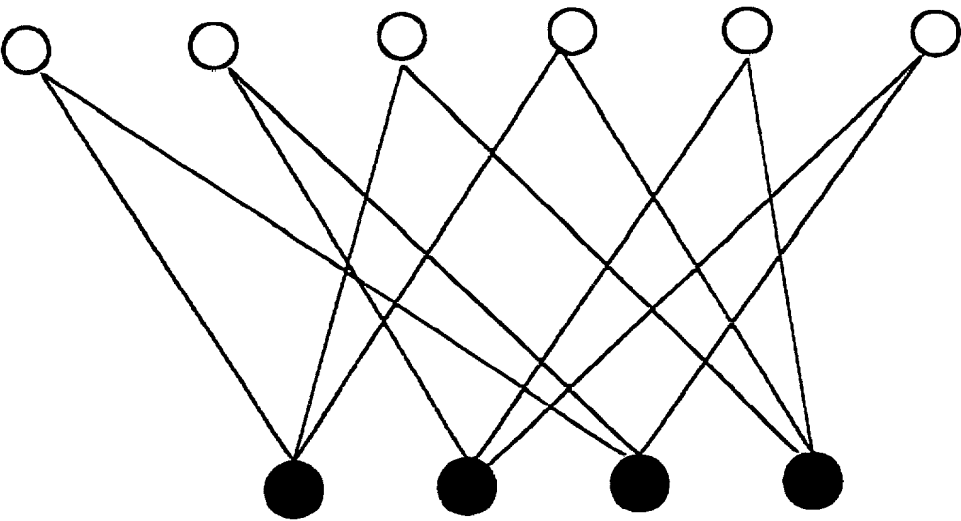
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Derek W. Norwood
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Low-Density Parity-Check Codes

Gallager 1963



05-18-2000 04:29pm From-

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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