Half their thing they given given

PTO/SB/16 (2-98)

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This is a request f	or filing a PR	OVISIONAL APPLIC	ATION FOR P	ATENT un	der 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 McEliece		Pasadena, CA Pasadena, CA Pasadena, CA		
[] Additional inventors a	re being name	d on the <u>O</u> separately r	numbered sheets	attached he	ereto.	
		OF THE INVENTION				
SERIAL INTERCONN FILTER	IECTION OF	A LOW-DENSITY GE	NERATOR CO	DE WITHA	DIGITAL RECURSIVE	
		CORRESPONDENC	CE ADDRESS			
Direct all correspondence to: [x] Customer Number:20985 OR		]	Place Custome Bar Code Lal	I		
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Address	4350 La Jolla Village Drive, Suite 500 San Diego, CA 92122					
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	ENCLOSE	APPLICATION PAI			)	
[X] Specification A	Number of Pag	ges 33 []	Small Entity St	atement		
[] Drawing(s) Number of Sheets 0 [] Other (specify)						
METHOD OF PAYME	NT OF FILING	FEES FOR THIS PROV	VISIONAL APPL	ICATION FO	OR PATENT (check one)	
[X] A check or money order is enclosed to cover the filing fees.  FILING FEE AMOUNT (\$)						
[] The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 06-1050 \$150						
The invention was magency of the United [] No. [X] Yes, the name of t CCR-9804793	States Gover	nment.				
Respectfully submitte	d,		CERTIFI	CATE OF MA	U INC DV EVDDERE MAN	
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Signature Reg. No. 43,312			I hereby co	I hereby certify that this correspondence is being deposited with the United States Postal Service as		
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Attorney's Docket No.: 06618/637001/ CIT3220

# THE PERSON AND THE PE

# PROVISIONAL APPLICATION FOR PATENT

# under

# 37 CFR §1.53(c)

TITLE:

SERIAL INTERCONNECTION OF A LOW-DENSITY

GENERATOR CODE WITHA DIGITAL RECURSIVE

**FILTER** 

APPLICANT:

HUI JIN, AAMOD KHANDEKAR AND ROBERT

**MECLIECE** 

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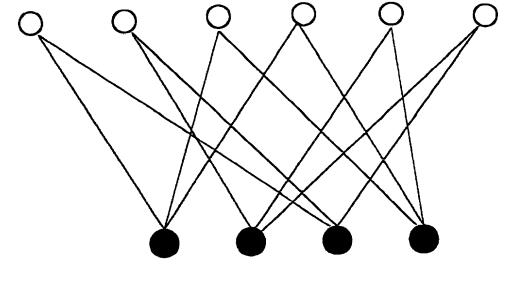
# The game near channel capacity Turbo-like Code Design:

ni Jin



# **Low-Density Parity-Check Codes**

Gallager 1963



N

# 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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