

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

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

Express Mail Label No.: EV785689021US

031006 20427 U.S. PTO

13243 U.S. PTO 001781527 031006

INVENTORS

Inventor Name	Residence (City and either State or Foreign Country)
John M. Harris	Chicago, Illinois, United States

Additional inventors are being named on the 2 separately numbered sheet attached hereto

TITLE OF THE INVENTION (280 characters maximum)

METHOD AND APPARATUS FOR SPREADING CHANNEL CODE SELECTION

CORRESPONDENCE ADDRESS

Direct all correspondence to:

Customer Number 22917

OR

Firm or Individual Name			
Address			
Address			
City	State	Zip	
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ENCLOSED APPLICATION PARTS (check all that apply)

- Specification Pages Number of Pages 20 CD(s), Number
- Drawings Number of Sheets 5 Other (specify) Ref. - 734 pages
- Application Data Sheet. See 37 CFR 1.76

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT

- Applicant claims small entity status. See 37 CFR 1.27.
- A check or money order is enclosed to cover the filing fees
- The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number: 502117.
- Payment by credit card. Form PTO-2038 is attached.

Filing Fee Amount (\$)

\$200.00

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:

Respectfully submitted,

Date March 10, 2006

SIGNATURE

Jeffrey K. Jacobs

TYPED or PRINTED NAME Jeffrey K. Jacobs

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REGISTRATION NO. 44,798

(if appropriate) Docket Number: CE15301R

20427
031006
U.S. PTO

Effective on 12/08/2004

Complete if Known

Pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818)

FEE TRANSMITTAL
For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

Application Number	
Filing Date	
First Named Inventor	Harris et al.
Examiner Name	
Group Art Unit	
Attorney Docket No.	CE15301R

TOTAL AMOUNT OF PAYMENT (\$)

METHOD OF PAYMENT (check all that apply)

- Check Credit card Money Order None Other (please identify): _____
 Deposit Account Deposit Account Number: **502117** Deposit Account Name: **MOTOROLA, INC.**
 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)
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 under 37 CFR 1.16 and 1.17

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	\$200.00

2. EXCESS CLAIM FEES

Fee Description	Fee(\$)	Small Entity Fee (\$)
Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent	50	25
Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent	200	100
Multiple dependent claims	360	180

Total Claims: - 20 or HP= x Fee (\$)= Fee Paid (\$)=
 HP=highest number of total claims paid for, if greater than 20

Multiple Dependent Claims: Fee(\$)= Fee Paid (\$)=

Indep. Claims: - 3 or HP= x Fee (\$)= Fee Paid (\$)=
 HP=highest number of independent claims paid for, if greater than 3

3. APPLICATION SIZE FEE:

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

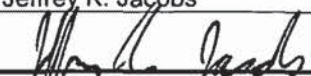
Total Sheets: - 100 = Extra Sheets /50 = Number of each additional 50 or fraction thereof (round up to a whole number) x Fee (\$)= Fee Paid (\$)=

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount) Fee Paid (\$)= _____
 Other: _____ Fee Paid (\$)= _____

SUBMITTED BY

Complete (if applicable)

Name (Print/Type)	Jeffrey K. Jacobs	Registration No.	44,798	Telephone	847-576-5562
Signature		Date	March 10, 2006		

METHOD AND APPARATUS FOR SPREADING CHANNEL CODE
SELECTION

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Reference(s) to Related Application(s)

The present application claims priority from provisional application,
Serial No. «Prov_Appl_Number», entitled "METHOD AND APPARATUS FOR
10 SPREADING CHANNEL CODE SELECTION," filed March 10, 2006, which is
commonly owned and incorporated herein by reference in its entirety.

Field of the Invention

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The present invention relates generally to communications and, in
particular, to spreading channel code selection in communication systems.

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Background of the Invention

Currently, standards bodies such as 3GPP (3rd Generation
Partnership Project) and 3GPP2 (3rd Generation Partnership Project 2) are
developing standards specifications for wireless telecommunications systems.
25 (These groups may be contacted via <http://www.3gpp.org/> and
<http://www.3gpp2.com/>, respectively.) In particular, proposals for new
physical layer link descriptions are being developed and submitted for
consideration. In general, wireless technologies that employ spreading and
two-stage ranging rely on remote units to randomly select a spreading
30 channel code to use with their initial ranging signal. The limited number of
ranging codes and the frequency of collisions between units using the same
code for access degrade the performance of user services (greater access

delays, e.g.) and diminish user experience, particularly with time sensitive services such as push-to-talk. Accordingly, it would be desirable to have an improved method and apparatus for spreading channel code selection applicable to these wireless technologies.

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Brief Description of the Drawings

FIG. 1 is a depiction of a wireless communication system in accordance with multiple embodiments of the present invention.

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FIG. 2 is a block diagram depiction of the wireless communication system of FIG. 1, in accordance with multiple embodiments of the present invention.

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FIG. 3 is a logic flow diagram of functionality performed by a network in accordance with multiple embodiments of the present invention.

FIG. 4 is a logic flow diagram of functionality performed by a remote unit in accordance with multiple embodiments of the present invention.

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FIG. 5 is a logic flow diagram of functionality performed by a network in accordance with multiple embodiments of the present invention.

Specific embodiments of the present invention are disclosed below with reference to FIGs. 1-5. Both the description and the illustrations have been drafted with the intent to enhance understanding. For example, the dimensions of some of the figure elements may be exaggerated relative to other elements, and well-known elements that are beneficial or even necessary to a commercially successful implementation may not be depicted so that a less obstructed and a more clear presentation of embodiments may be achieved. In addition, unless specifically indicated, the order and grouping

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