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- (71) **Applicant (for all designated States except LC, US):**
NOKIA CORPORATION [FI/FI]; Keilalahdentie 4,
FIN-02150 ESPOO (FI).
- (71) **Applicant (for LC only):** NOKIA INC. [US/US]; 6000
Connection Drive, Irving, TX 75039 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** TIROLA, Esa
[FI/FI]; Porttikellonkuja 12, FIN-90450 Kempele (FI).
PAJUKOSKI, Kari [FI/FI]; Purantie 3, FIN-90240 Oulu
(FI).
- (74) **Agent:** SMITH, Harry, F.; Harrington & Smith PC, 4
Research Drive, Shelton, CT 06484-6212 (US).

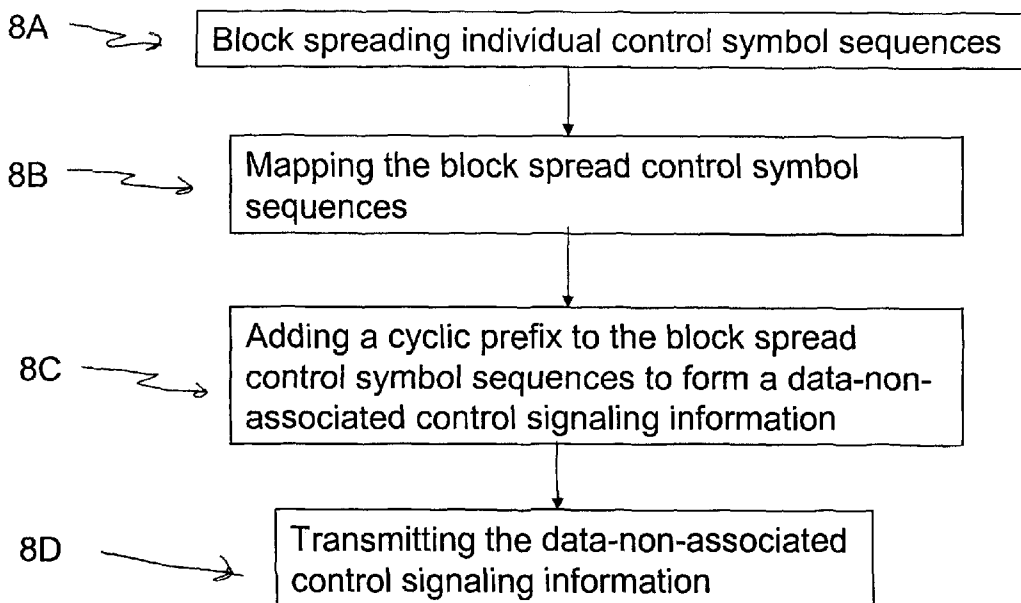
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(54) Title: METHOD PROVIDING MULTIPLEXING FOR DATA NON ASSOCIATED CONTROL CHANNEL



(57) **Abstract:** A method is provided for block spreading individual control symbol sequences, mapping the block spread control symbol sequences, adding a cyclic prefix to the block spread control symbol sequences to form a data-non-associated control signaling information, and transmitting the data-non-associated control signaling information.

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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: H04B, H04J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, COMPENDEX, INSPEC, INTERNET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|---|-----------------------|
| Y | 3GPP TR 25.814 V7.0.0 (2006-06); 3rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical layer aspects for evolved Universal Terrestrial Radio Access (UTRA) (Release 7), page 74, line 1 - page 31, figure 9.1.1.2.3-2 -- | 1-26 |
| Y | NTT DoCoMo, NEC, SHARP: "Orthogonal Pilot Channel in the Same Node B in Evolved UTRA Uplink", 3GPP TSG RAN WG1#42 on LTE, R1-050851, London, UK, August 29 - September 2, 2005, Page 1, line 1 - line 6, page 2, line 1 - line 8, page 4, line 1 - line 8, figure 7-8 -- | 1-26 |

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Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Hannes Nordmark/CC

Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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|-----------|--|-----------------------|
| A | <p>XIAOMING PENG ET AL: "A simplified transceiver structure for cyclic extended CDMA system with frequency domain equalization," Vehicular Technology Conference, 2005. VTC 2005-Spring. 2005 IEEE 61st , vol.3, pp. 1753-1757 Vol. 3, 30 May-1 June 2005, Page 1754, left column, line 1 - line 20, page 1754, left column, line 39 - page 1755, left column, line 5, figure 1-4</p> <p style="text-align: center;">--</p> | 1-26 |
| P,X | <p>US 20070171995 A1 (MUHAREMOVIC, T ET AL), 26 July 2007 (26.07.2007), paragraphs [0011], [0012], [0032]-[0034]</p> <p style="text-align: center;">--</p> | 1-26 |
| E | <p>ERICSSON: "Multiplexing of ACK/NACK and Scheduling Request on PUCCH", TSG-RAN WG1, R1-080510, Sevilla, Spain, January 14 - 18, 2008, page 4, line 1 - line 8</p> <p style="text-align: center;">-- -----</p> | 1-26 |

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Paper copies can be ordered at a cost of 50 SEK per copy from PRV InterPat (telephone number 08-782 28 85).

Cited literature, if any, will be enclosed in paper form.

INTERNATIONAL SEARCH REPORT
Information on patent family members

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