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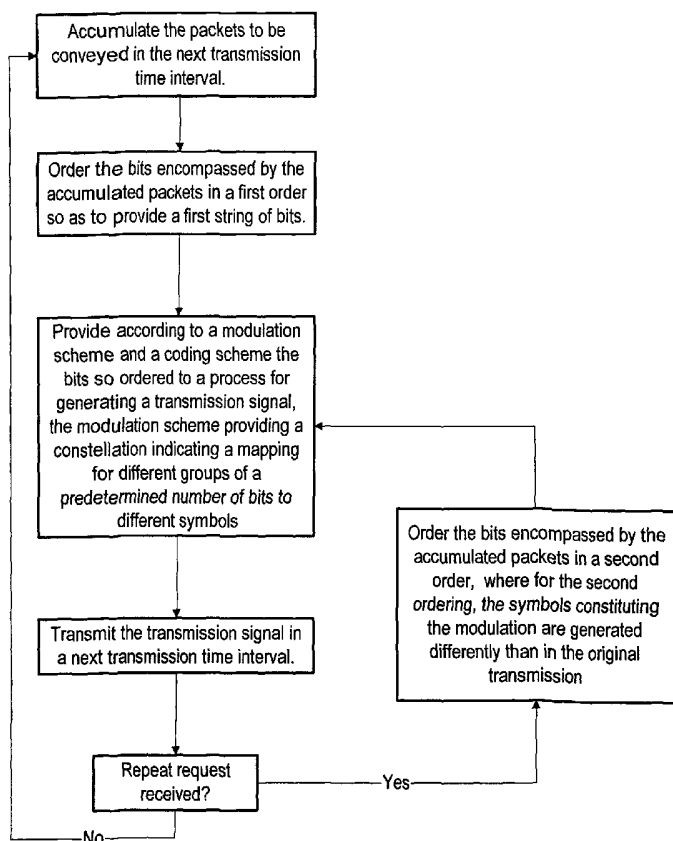
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- (71) Applicant: **NOKIA CORPORATION** [FI/FI]; Keilalah-  
dentie 4, FIN-02150 Espoo (FI).
- (71) Applicant (for LC only): **NOKIA, INC.** [US/US]; 6000  
Connection Drive, Irving, TX 75039 (US).
- (72) Inventor: **ÖSTMAN, Kjell**; Kreivinkuja 2, FIN-FI-24800  
Halikko (FI).
- (74) Agents: **MAGUIRE, Francis, J.** et al.; Ware, Fressola,  
Van Der Sluys & Adolphson LLP, 755 Main Street, P.O.  
Box 224, Monroe, CT 06468 (US).
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(54) Title: METHOD AND APPARATUS IMPLEMENTING RETRANSMISSION IN A COMMUNICATION SYSTEM PROVIDING H-ARQ



(57) Abstract: An apparatus and corresponding method (Fig. 4) for responding to a repeat request in a wireless communication system in which packets are communicated according to a modulation and coding scheme, with one or more packets provided in a frame communicated during a transmission time interval, the method including the steps of: if a repeat request is received, then ordering in a second order the bits of the packets associated with the repeat request, and repeating the steps up to and including retransmitting the packets associated with the repeat request; wherein the second order, the symbols constituting the modulation are generated differently than in the original transmission.

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## INTERNATIONAL SEARCH REPORT

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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : H04B 7/216; H04L 1/18,12/413; H04J 3/16,3/22; H03M 13/00,13/03; G08C 25/02; G06F 11/00

US CL : 370/335,465,468,342,441; 714/748,746,749,751,786,774,704

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST (USPAT, EPO, JPO, DERWENT, IBM\_TDB)**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,208,663 B1 (SCHRAMM et al.) 27 March 2001, All	1-28
A	US 5,946,320 (DECKER) 31 August 1999, All	1-28
A,P	US 6,308,294 B1 (GHOSH et al.) 23 October 2001, All	1-28
A,P	US 6,370,669 B1 (EROZ et al.) 9 April 2002, All	1-28
A	US 4,874,842 (SCHILLING) 11 July 1989, All	11,13,24,26
A	US 5,828,677 (SAYEED et al.) 27 October 1998, All	10-13,23-28



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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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Box PCT

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Facsimile No. (703)305-3230

Authorized officer

Nittaya Juntima

Telephone No. 703-306-4821