

Title (en)
APPARATUS AND METHOD FOR CHANNEL INTERLEAVING IN COMMUNICATIONS SYSTEM

Title (de)
VORRICHTUNG UND VERFAHREN ZUR KANALVERSCHACHTELUNG IN EINEM KOMMUNIKATIONSSYSTEM

Title (fr)
APPAREIL ET PROCEDE D'IMBRICATION CANAL DANS DES SYSTEMES DE COMMUNICATIONS

Publication
EP 1900104 A4 20090902 (EN)

Application
EP 06752461 A 20060509

Priority
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Abstract (en)
[origin: WO2006124428A2] An apparatus and method for interleaving systematic bits and parity bits to generate an output sequence that can be transmitted in multi-slot packets from a base station to a remote station in a wireless communication system. The apparatus comprises a memory element and a control element coupled to the memory element, wherein the control element is configured to demultiplex the systematic bits and parity bits into sequences, wherein the systematic bits and parity bits are sequentially distributed among the sequences. The control element is further configured to reorder the sequences based on an index set, to group the sequences into segments and to interleave each of the segments forming matrices having elements. The control element is also configured to modulate the elements of the matrices, and to truncate the modulated elements of each matrix, so as to produce the output sequence which comprises truncated modulating elements from each matrix of the matrices.

IPC 8 full level
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CPC (source: EP KR)
H03M 13/27 (2013.01 - KR); **H03M 13/271** (2013.01 - EP); **H03M 13/2725** (2013.01 - EP); **H03M 13/2771** (2013.01 - EP); **H03M 13/2957** (2013.01 - EP); **H03M 13/6381** (2013.01 - EP); **H04L 1/0066** (2013.01 - EP); **H04L 9/065** (2013.01 - KR); **H04L 65/00** (2013.01 - KR); **H03M 13/6306** (2013.01 - EP); **H04L 1/1819** (2013.01 - EP)

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WO 2006124428 A2 20061123; **WO 2006124428 A3 20071213**; AU 2006247818 A1 20061123; BR PI0611236 A2 20100824; CA 2609794 A1 20061123; CA 2609794 C 20131203; CN 101322317 A 20081210; CN 101322317 B 20130529; EP 1900104 A2 20080319; EP 1900104 A4 20090902; EP 2214317 A1 20100804; IL 187137 A0 20080209; JP 2008541624 A 20081120; JP 4903790 B2 20120328; KR 101022930 B1 20110316; KR 101100483 B1 20111229; KR 20080005306 A 20080110; KR 20100122929 A 20101123; MX 2007014157 A 20080207; MY 144793 A 20111115; NO 20076385 L 20071211; NZ 563210 A 20101126; NZ 584316 A 20110729; RU 2365035 C1 20090820

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