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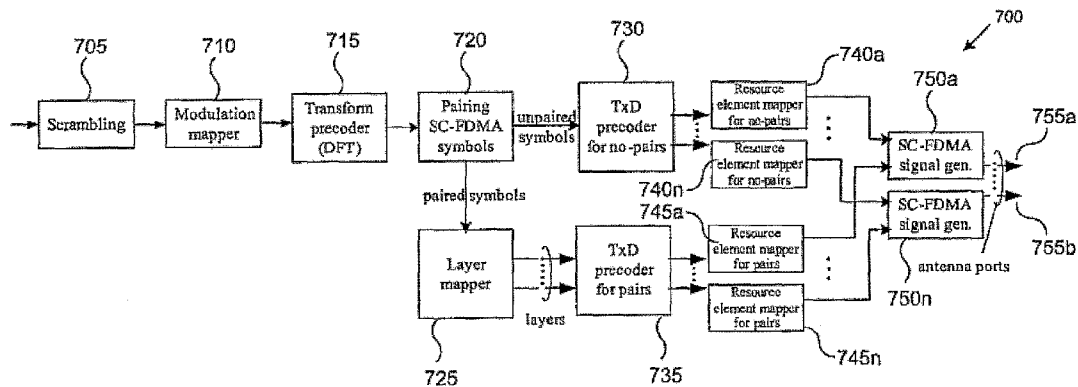
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FIG. 7





(57) Abstract: A system and method for uplink transmit diversity. The system and method include a pairing device configured to pair a number of symbol sets to form paired sets. The paired sets are mapped onto a number of layers. The layers are precoded into at least two pairs of two precoded streams and the precoded streams are mapped onto at least two antenna ports. Further, a number demodulation reference signals are transmitted via a portion of the resource elements for at least two antenna ports such that, a first number of demodulation reference signals are transmitted via a portion of the resource elements of a first pair of antenna ports and a second number of demodulation reference signals are transmitted via a portion of the resource elements of the second pair of antenna ports.

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B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) IPC: H04L, H04B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Utility models applications for Utility Models Japanese Utility Models and application for Utility Models		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) eKOMPASS, IEEEExpl, Google; SC-FDMA, STBC, pairing, precoder		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	WO 2008/098093 A2(QUALCOMM INCORPORATED) 14 August 2008 See summary, Fig.3A, 6A-6C, and claims 22-27.	1-20
A	US 2007/0291638 A1(CHAN-BYOUNG CHAE, et al) 20 December 2007 See all documents.	1-20
A	US 2007/0189151 A1(JUNG-LIN PAN, et al) 16 August 2007 See all documents.	1-20
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
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