Title (en)
AN UPLINK CODING AND MULTIPLEXING IMPLEMENTATION

Title (de)
IMPLEMENTIERUNG FÜR AUFWÄRTSSTRECKEN-CODIERUNG UND MULTIPLEXEN

Title (fr)
MISE EN OEUVRE DE CODAGE ET DE MULTIPLEXAGE DE LIAISON MONTANTE

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Abstract (en)
[origin: WO2006021828A1] This invention describes a method for a new methodology for uplink encoding (coding and multiplexing) of data from multiple transport channels without intermediate memories using "on the fly" method. This invention presents a new encoding architecture for implementing "transport channel multiplexing structure for uplink" per 3GPP TS 25.212 V6.2.0 (2004-06). The present invention decreases the memories by simultaneously running encoding steps of channel coding (14), first interleaving (16), rate matching (28), second interleaving and multiplexing (18). This memory reduction is accomplished by a "handshaking" between the appropriate blocks. The invention creates opportunities for designing application specific integrated circuits (ASICs) to implement the above standards in terms of reducing complexity, chip area, power consumption and a number of interrupt commands for processing, which consequently decreases digital signal processing (DSP) requirements.

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