

Title (en)  
SPACE-TIME TURBO TRELLIS CODING ARRANGEMENT AND METHOD THEREOF

Title (de)  
RAUM-ZEIT TURBO TRELLIS KODIERUNGSEINRICHTUNG UND VERFAHREN

Title (fr)  
AGENCEMENTS ET PROCEDES POUR LE TURBO CODAGE EN TREILLIS SPATIO-TEMPOREL

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Application  
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Abstract (en)  
[origin: WO0243313A2] First and second recursive space-time trellis coded modulation (STTCM) coders each produce, in successive symbol intervals, a plurality of T M-PSK symbols from a group of b input bits, where  $M=2^{<b>}$ . The groups of b bits are supplied directly to the first coder and via an interleaver to the second coder, whose output symbols are conversely de-interleaved. A selector supplies T symbols from the first coder and T symbols from the de-interleaver alternately in successive symbol intervals to T output paths for T antennas providing transmit diversity. STTCM codes are described for different values of T and M and for fast and slow fading channels.

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