

Title (en)  
BLOCK JOINT SOURCE-CHANNEL CODING

Title (de)  
GEMEINSAME BLOCKFÖRMIGE QUELLEN- UND KANALCODIERUNG

Title (fr)  
CODAGE SOURCE-CANAL CONJOINT EN BLOCS

Publication  
**EP 1131928 A1 20010912 (FR)**

Application  
**EP 99943017 A 19990921**

Priority  
FR 9902241 W 19990921

Abstract (en)  
[origin: WO0122676A1] The invention concerns joint source-channel coding comprising quantization and phase modulation with a constellation of NC points. The constellation of the phase modulation is a rotated constellation (CC) derived from a predetermined rotation of a uniform phase constellation with NC points such that the NC points of the constellation are projected on any one of the axes (O-X1, O-X2) of the constellation in NC projections all different from one another. The quantization provides a non-uniform quantization law (CS) of NS levels which are NS projections among NC different projections of the rotated constellation (CC). Such coding can be used in particular in a speech encoder for mobile radio communication cellular system to reduce transmission channel band width.

IPC 1-7  
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IPC 8 full level  
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**G10L 19/113** (2013.01); **H03M 13/25** (2013.01); **H03M 13/63** (2013.01); **H03M 13/6594** (2013.01); **H04L 27/183** (2013.01); **H04L 27/3488** (2013.01)

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