

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
H04L 27/34; H04L 27/18; H03M 13/00; G10L 19/10

IPC 8 full level
G10L 19/113 (2013.01); **H03M 13/25** (2006.01); **H04L 27/18** (2006.01); **H04L 27/34** (2006.01)

CPC (source: EP)
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)

Citation (search report)
See references of WO 0122676A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 0122676 A1 20010329; EP 1131928 A1 20010912

DOCDB simple family (application)
FR 9902241 W 19990921; EP 99943017 A 19990921