

Title (en)
SUB-BAND PERMUTATION METHOD

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Application
EP 82100607 A 19820129

Priority
DE 3105214 A 19810213

Abstract (en)
[origin: EP0058318A1] 1. Method for the interchanging of equally wide partial bands of a signal frequency band by means of modulators (X), behind which are connected like band pass filters (BP 1 to BP 5) as well as further modulators (X), wherein certain carrier frequencies (f 1 to f 4) are fixedly associated with the modulators (X) and a coupling matrix (scrambling matrix), which is controllable by a random generator, for the scrambling of the partial bands is provided between the band pass filters (BP 1 to BP 5) and the modulators (X) connected therebehind, characterised thereby, that the carrier frequencies display the values $f_{nu} = (n_{nu} - i/l) \cdot B$ with $nu = 1, 2 \dots$ partial bands of the bandwidth B and i, l and $n_{nu} \in \mathbb{N}$ | $N = 1, 2 \dots$ (elements epsilon from the mass of natural numbers) as freely selectable parameters, wherein i and n_{nu} can also assume the value 0, and that the modulators (X) operate discretely in time and the relationship $f_S = 2m_{nu} \cdot f_{nu}$, $m_{nu} \in \mathbb{N}$ | $N = 1, 2 \dots$ applies for the scanning frequency of the carrier oscillations.

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H04K 1/04

IPC 8 full level
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