

Title (en)  
SUB-BAND PERMUTATION METHOD

Publication  
**EP 0058318 B1 19840808 (DE)**

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  $n_{nu} \in \mathbb{N} \mid N = 1, 2 \dots$  (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  $f_S = 2m_{nu} \cdot f_{nu}$ ,  $m_{nu} \in \mathbb{N} \mid N = 1, 2 \dots$  applies for the scanning frequency of the carrier oscillations.

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**H04K 1/04**

IPC 8 full level  
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CPC (source: EP)  
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