

Title (en)  
Sub-band processing complexity reduction

Title (de)  
Subband-Verarbeitung zur Komplexitätsverringern

Title (fr)  
Réduction de la complexité de traitement de sous-bande

Publication  
**EP 2755205 A1 20140716 (EN)**

Application  
**EP 14157074 A 20110124**

Priority  
• US 69653310 A 20100129  
• EP 11151856 A 20110124

Abstract (en)  
A sub-band processing system that reduces computational complexity and memory requirements includes a processor and a local or distributed memory. Logic stored in the memory partitions a frequency spectrum of bins into a smaller number of sub-bands. The logic enables a lossy compression by designating a magnitude and a designated or derived phase of each bin in the frequency spectrum as representative. The logic renders a lossless compression by decompressing the lossy compressed data and providing lost data based on original spectral relationships contained within the frequency spectrum.

IPC 8 full level  
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**G10L 19/0204** (2013.01); **G10L 19/0212** (2013.01); **G10L 25/18** (2013.01); **G10L 2021/02082** (2013.01)

Citation (search report)  
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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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DOCDB simple family (application)  
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