

Title (en)  
Digital VSB modulator

Title (de)  
Digitaler Restseitenbandmodulator

Title (fr)  
Modulateur numérique à bande latérale résiduelle

Publication  
**EP 1079574 A8 20010502 (EN)**

Application  
**EP 00117935 A 20000821**

Priority  
US 38223199 A 19990824

Abstract (en)  
[origin: EP1079574A2] A digital method and apparatus modulates a stream of digitized samples from a source, (202) by a digital representation of a carrier (804) to provide, for example, a 6 MHz bandwidth television signal selectively centered either at 63 MHz (Channel 3), 69 MHz (Channel 4) or 5.38 MHz IF (baseband). More particularly the method includes first resampling (800) the stream of digitized samples and then modulating (802) the resampled stream of samples with a repeating short sequence of complex values (804), which complex values represent a digitized exponential carrier. <IMAGE>

IPC 1-7  
**H04L 27/02**

IPC 8 full level  
**H03C 1/00** (2006.01); **H04L 27/02** (2006.01); **H04L 27/04** (2006.01); **H04N 7/015** (2006.01)

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