

Title (en)  
FREQUENCY CONVERTER

Title (de)  
FREQUENZUMSETZER

Title (fr)  
PROCEDE ET SYSTEME DE CONVERSION-ELEVATION DE FREQUENCE AVEC DIFFERENTS TYPES DE MODULATION

Publication  
**EP 1277272 A2 20030122 (EN)**

Application  
**EP 01926955 A 20010413**

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Abstract (en)  
[origin: WO0180418A2] A method and system is described wherein an information signals is gated at a frequency that is a sub-harmonic of the frequency of the desired output signal. In the modulation embodiments, the information signal is modulated as part of the up-conversion process. In a first modulation embodiment, one information signal is phase modulated onto the carrier signal as part of the up-conversion process. In a second modulation embodiment, two information signals are multiplied, and, as part of the up-conversion process, one signal is phase modulated onto the carrier and the other signal is amplitude modulated onto the carrier. In a third modulation embodiment, one information signal is phase modulated onto the "I" phase of the carrier signal as part of the up-conversion process and a second information signal is phase modulated onto the "Q" phase of the carrier as part of the up-conversion process. In a fourth modulation embodiment, four information signals are phase and amplitude modulated onto the "I" and "Q" phases of the carrier as part of the up-conversion process. There are at least two implementations of each of the aforementioned embodiment.

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Cited by  
US9325556B2; US9246736B2; US9246737B2; US9288100B2; US9306792B2; US9319262B2; US9350591B2; US9444673B2;  
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