

Title (en)
RF SYNTHESIZER AND RF TRANSMITTER OR RECEIVER INCORPORATING THE SYNTHESIZER

Title (de)
HF-SYNTHESIZER UND DEN SYTHESIZER ENTHALTENDER HF-SENDER ODER -EMPFÄNGER

Title (fr)
SYNTHETISEUR RF ET EMETTEUR RF OU RECEPTEUR EQUIPE DU SYNTHETISEUR

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Application
EP 06786008 A 20060630

Priority
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• GB 0518214 A 20050908

Abstract (en)
[origin: GB2430089A] An RF (radio frequency) synthesizer (200) includes a VCO (voltage controlled oscillator) (220) operable to provide an output signal at a desired frequency (FVCO) and, coupled to the VCO, a frequency divider operable to receive the output signal of the VCO and to provide an output signal which is divided in frequency relative to the output signal of the VCO, wherein the synthesizer includes an output path (250, 251) which includes the frequency divider (241), whereby the synthesizer is operable to provide an output signal at an output frequency (FVCO/Nx) of the frequency divider. The synthesizer may beneficially include an integrated circuit which incorporates at least part of the VCO. Also described is an RF transmitter or receiver, e.g. for use in a base transceiver station of a mobile communications system, which incorporates the synthesizer.

IPC 8 full level
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Citation (search report)
• [X1] US 2003128720 A1 20030710 - JONES DELON K [US]
• [X1] US 2003189464 A1 20031009 - DRAPKIN OLEG [CA], et al
• [X1] US 6711227 B1 20040323 - KAYLANI TAREK [US], et al
• See references of WO 2007030189A2

Designated contracting state (EPC)
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GB 0518214 A 20050908; CN 200680032773 A 20060630; EP 06786008 A 20060630; KR 20087008359 A 20060630; US 2006025664 W 20060630