

Title (en)

STABILIZING CIRCUIT FOR FEEDBACK RF AMPLIFIER

Publication

**EP 0495921 A4 19920923 (EN)**

Application

**EP 90917172 A 19901010**

Priority

US 42226789 A 19891016

Abstract (en)

[origin: WO9106149A1] A transmitter (100), with an inphase input (102) for receiving an inphase baseband input signal, and a quadrature input (112) for receiving a quadrature baseband input signal, comprises a modulator (130), coupled to the inphase and quadrature inputs, for modulating the inphase and quadrature baseband signals, to provide a modulated radio-frequency signal, and a linear amplifier (135), coupled to the modulator, for amplifying the modulated radio-frequency signal to produce an output signal. An oscillation detector is coupled to receive the output signal, for detecting oscillation, and for producing an error signal as a result of the oscillation. The transmitter also comprises circuitry (transmission gates 124, 126, 127, and 128) for reducing the open loop gain of the feedback loop, disposed between the inphase and quadrature inputs and the modulator. The circuitry for reducing the open loop gain reduces the open loop gain of the transmitter to less than one, in response to the error signal.

IPC 1-7

**H03F 1/26**

IPC 8 full level

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CPC (source: EP)

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**H04L 27/368** (2013.01); **H03F 2200/102** (2013.01); **H03F 2200/336** (2013.01); **H03F 2200/57** (2013.01)

Citation (search report)

- [YP] US 4929906 A 19900529 - VOYCE KENNETH G [US], et al
- [Y] US 4181889 A 19800101 - DAVIS JAMES L [US], et al
- [Y] US 4291277 A 19810922 - DAVIS ROBERT C, et al
- [Y] FR 2532491 A1 19840302 - THOMSON CSF [FR]
- [A] GB 2173074 A 19861001 - NEC CORP
- See references of WO 9106149A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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