

Title (en)
DUPLEX COMMUNICATION TRANSCEIVER WITH MODULATION CANCELLATION.

Title (de)
DUPLEXFÄHIGER VERBINDUNGSSENDER/-EMPFÄNGER MIT MODULATIONSUNTERDRÜCKUNG.

Title (fr)
EMETTEUR-RECEPTEUR DE COMMUNICATION DUPLEX AVEC ANNULATION DE MODULATION.

Publication
EP 0165265 A4 19851230 (EN)

Application
EP 84904314 A 19841119

Priority
• US 55868583 A 19831205
• US 55873983 A 19831205

Abstract (en)
[origin: WO8502734A1] A duplex FM communication transceiver (10) in which the problem of requiring additional costly apparatus to separately generate a modulated transmit carrier signal and a receiver first mixer injection signal is solved by utilizing the modulated transmit carrier signal as the receiver first mixer (32) injection signal. The receiver portion (27-46) of the transceiver (10) comprises dual conversion circuitry, and the transmit information signal used for modulating the transmit carrier signal is phase and amplitude adjusted and then utilized to modulate the receiver second injection local oscillator (41) which provides the input injection signal to the receiver second mixer (36). The second mixer (36) substantially cancels all of the transmit information signal previously introduced into the receiver path by the first mixer (32) and provides only received information signals to a demodulator (43) which provides audio signals to a speaker (46).

IPC 1-7
H04L 5/14; H04B 3/20

IPC 8 full level
H04B 1/40 (2006.01)

CPC (source: EP)
H04B 1/408 (2013.01)

Citation (search report)
• [X] DE 1002805 B 19570221 - TELEFUNKEN GMBH
• [A] US 4278848 A 19810714 - RIZZO JOSEPH F, et al
• [A] DE 2708570 A1 19780831 - NIHON DENGYO CO
• See also references of WO 8502734A1

Designated contracting state (EPC)
AT DE FR GB

DOCDB simple family (publication)
WO 8502734 A1 19850620; EP 0165265 A1 19851227; EP 0165265 A4 19851230; IT 1178443 B 19870909; IT 8449237 A0 19841203

DOCDB simple family (application)
US 8401912 W 19841119; EP 84904314 A 19841119; IT 4923784 A 19841203