

Title (en)

AIRBORNE ANTENNA SYSTEM WITH CONTROLLABLE NULL PATTERN

Title (de)

BORDANTENNENSYSYSTEM MIT STEUERBAREM NULLMUSTER

Title (fr)

SYSTÈME D'ANTENNE AÉROPORTÉ AVEC EXTINCTION CONTRÔLABLE DU DIAGRAMME DE RAYONNEMENT

Publication

EP 3017502 B1 20190821 (EN)

Application

EP 14811958 A 20140701

Priority

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- IB 2014001945 W 20140701

Abstract (en)

[origin: WO2015001425A2] A system configured to provide airborne antenna functionality through the application of a controllable null pattern. Coupled to a transceiver, the antenna of the invention is operable in the same frequency band with other transmit and receive antennas mounted in near proximity on an aircraft body. The antenna radiation pattern is varied so that the antenna radiation main beam direction can be controlled over a defined range. The antenna system addresses problems associated with proximate antenna interference by forming the transmit (or receive) antenna- radiation beam shape away from other antennas so as to mitigate nearby transmitter interference, while improving receive system performance without having power reduction requirement from nearby co- located, co-band operating transmitters. This is accomplished through electrical and mechanical tilt of the antenna.

IPC 8 full level

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