

Title (en)
INTEGRATED CIRCUIT COMPRISING AN ADAPTATION AND FILTERING NETWORK, AND CORRESPONDING ADAPTATION AND FILTERING METHOD

Title (de)
INTEGRIERTE SCHALTUNG, DIE EIN ANPASSUNGS- UND FILTERNETZWERK UMFASST, UND ENTSPRECHENDES ANPASSUNGS- UND FILTERVERFAHREN

Title (fr)
CIRCUIT INTÉGRÉ COMPORTANT UN RÉSEAU D'ADAPTATION ET DE FILTRAGE ET PROCÉDÉ D'ADAPTATION ET DE FILTRAGE CORRESPONDANT

Publication
EP 4107857 A1 20221228 (FR)

Application
EP 21704567 A 20210215

Priority
• EP 20157648 A 20200217
• EP 2021053672 W 20210215

Abstract (en)
[origin: WO2021165210A1] The invention relates to an integrated circuit having a power amplifier (PA) for providing a signal in a fundamental frequency band, an antenna (ANT) and an adaptation and filtering network (MFN), comprising: - a first section (SCT1), a second section (SCT2), and a third section (SCT3); the three sections comprising LC arrangements which are configured to have an impedance adapted to the output of the power amplifier (PA) in the fundamental frequency band, wherein the LC arrangements of the first section (SCT1) and the second section (SCT2) are further configured to have resonance frequencies which are respectively adapted to attenuate the harmonic frequency bands of the fundamental frequency band.

IPC 8 full level
H03H 7/01 (2006.01); **H03F 1/56** (2006.01); **H03H 7/38** (2006.01); **H03H 7/46** (2006.01)

CPC (source: EP US)
H03F 1/32 (2013.01 - EP); **H03F 1/565** (2013.01 - EP US); **H03F 3/189** (2013.01 - EP); **H03F 3/245** (2013.01 - US); **H03H 7/0115** (2013.01 - EP US); **H03H 7/1758** (2013.01 - EP); **H03H 7/1766** (2013.01 - EP); **H03H 7/38** (2013.01 - EP US); **H03H 7/468** (2013.01 - EP); **H03F 2200/387** (2013.01 - EP US); **H03F 2200/451** (2013.01 - EP US); **H03H 2007/013** (2013.01 - EP)

Citation (search report)
See references of WO 2021165210A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
FR 3107411 A1 20210820; CN 115136492 A 20220930; EP 4107857 A1 20221228; US 2023129447 A1 20230427; WO 2021165210 A1 20210826

DOCDB simple family (application)
FR 2101432 A 20210215; CN 202180014993 A 20210215; EP 2021053672 W 20210215; EP 21704567 A 20210215; US 202117800277 A 20210215