

Title (en)
AUDIO AMPLIFIER

Title (de)
TONFREQUENZVERSTÄRKER

Title (fr)
AMPLIFICATEUR AUDIO

Publication
EP 3161959 A1 20170503 (FR)

Application
EP 15731914 A 20150625

Priority
• FR 1455935 A 20140625
• EP 2015064383 W 20150625

Abstract (en)
[origin: CA2953801A1] This audio amplifier comprises: - an input (12) for an audio signal to be amplified (V_{in}) and an output (14) for powering a load (16) on the basis of the amplified audio signal; - a generator (18) of reference voltage of very high linearity and low output impedance, able to receive as input the audio signal to be amplified (V_{in}); - a power current generator (19) comprising a power voltage generator (20) whose output is connected to the output of the reference voltage generator (18) through a coupling inductance (22); and - means (32, 40, 42, 60) for introducing, for its control, as input to the power current generator (19) a signal representative of the current (i_A) provided as output by the reference voltage generator (18). The said means (32, 40, 42, 60) for introducing, for its control, as input to the current generator (19), a signal representative of the current (i_A) provided as output from the reference voltage generator (18), are able to introduce, furthermore, a signal (Formula (I)), representative of the product of the value ($L(iD)$) of the coupling inductance (22) and of the derivative with respect to time of the current (Formula (I)) provided to the load (16).

IPC 8 full level
H03F 3/21 (2006.01); **H03F 1/34** (2006.01); **H03F 3/217** (2006.01)

CPC (source: CN EP KR US)
H03F 1/0205 (2013.01 - US); **H03F 1/34** (2013.01 - CN EP KR US); **H03F 3/185** (2013.01 - US); **H03F 3/211** (2013.01 - CN EP KR US); **H03F 3/217** (2013.01 - CN EP KR US); **H03F 3/3001** (2013.01 - US); **H03F 3/45475** (2013.01 - US); **H03F 2200/03** (2013.01 - KR US); **H03F 2203/45281** (2013.01 - US)

Citation (search report)
See references of WO 2015197764A1

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

DOCDB simple family (publication)
FR 3023088 A1 20160101; **FR 3023088 B1 20160722**; BR 112016030591 A2 20170822; BR 112016030591 B1 20220823; CA 2953801 A1 20151230; CA 2953801 C 20230725; CN 106575952 A 20170419; CN 106575952 B 20200403; EP 3161959 A1 20170503; JP 2017525264 A 20170831; JP 6925695 B2 20210825; KR 102466908 B1 20221111; KR 20170023166 A 20170302; US 10158326 B2 20181218; US 2017214365 A1 20170727; WO 2015197764 A1 20151230

DOCDB simple family (application)
FR 1455935 A 20140625; BR 112016030591 A 20150625; CA 2953801 A 20150625; CN 201580041525 A 20150625; EP 15731914 A 20150625; EP 2015064383 W 20150625; JP 2016575557 A 20150625; KR 20177002402 A 20150625; US 201515322311 A 20150625