

Title (en)
LOUDSPEAKER WITH THERMAL CONTROL

Title (de)
LAUTSPRECHER MIT WÄRMESTEuerung

Title (fr)
ÉCOUTEURS À COMMANDE THERMIQUE

Publication
EP 3291577 A1 20180307 (EN)

Application
EP 17189159 A 20170904

Priority
TW 16110548 A 20160905

Abstract (en)
An apparatus for providing speaker protection, comprising: a gain unit for scaling an audio signal to be coupled to a speaker; a speaker model for estimating the temperature behaviour of the speaker due to the scaled audio signal; a controller for controlling the gain of said gain unit based on the estimated temperature behaviour to avoid overheating of the speaker; wherein the speaker model is characterized by a plurality of speaker parameters including thermal time constant.

IPC 8 full level
H04R 3/00 (2006.01)

CPC (source: EP)
H04R 3/007 (2013.01)

Citation (search report)

- [Y] GB 2534949 A 20160810 - CIRRUS LOGIC INT SEMICONDUCTOR LTD [GB]
- [A] US 2016119714 A1 20160428 - MADSEN KIM N [DK], et al
- [Y] KLIPPEL ET AL: "Nonlinear Modeling of the Heat Transfer in Loudspeakers", JAES, AES, 60 EAST 42ND STREET, ROOM 2520 NEW YORK 10165-2520, USA, vol. 52, no. 1/2, 1 February 2004 (2004-02-01), pages 3 - 25, XP040507072
- [A] AES, 60 EAST 42ND STREET, ROOM 2520 NEW YORK 10165-2520, USA, 7 October 2005 (2005-10-07), XP040372904

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Designated extension state (EPC)
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