Title (en)
CURRENT MEASUREMENT FOR AN ELECTRIC HEATER

Title (de)
STROMMESSUNG FÜR EINEN ELEKTROHEIZER

Title (fr)
MESURE DE COURANT POUR RADIATEUR ELECTRIQUE

Publication
EP 2638406 A1 20130918 (FR)

Application
EP 11781530 A 20111109

Priority
• FR 1004379 A 20101109
• EP 2011069714 W 20111109

Abstract (en)
[origin: WO2012062789A1] The invention relates to a method for measuring a current or voltage output quantity of a switched-mode power supply circuit (H), referred to as a chopper circuit, of period T and of cyclic ratio a, belonging to the interval]0; 1[, such that, at each period, the supply current is non-zero during an "ON" phase of duration aT, and zero during an "OFF" phase of duration (1-a)T. The measurement method includes the following steps: measuring the value Gon of an image of the output quantity during an "ON" phase; measuring the value Goff of an image of the output quantity during an "OFF" phase; calculating the difference ?G = Gon - Goff,; and using the difference ?G for evaluating the output quantity.

IPC 8 full level
G01R 19/00 (2006.01); **G01R 35/00** (2006.01)

CPC (source: EP US)
G01R 19/003 (2013.01 - US); **G01R 19/0092** (2013.01 - EP US); **G01R 35/005** (2013.01 - US); G01R 35/00 (2013.01 - EP US)

Citation (search report)
See references of WO 2012062789A1

Citation (examination)
• JP 2006262677 A 20060928 - MITSUBA CORP
• JOSEPH PARADISO: "MAS.836 HOW TO BIAS AN OP-AMP", MAS.836 SENSOR TECHNOLOGIES FOR INTERACTIVE ENVIRONMENTS. SPRING 2011., 1 January 2011 (2011-01-01), pages 1 - 9, XP055744879, Retrieved from the Internet <URL:https://ocw.mit.edu/courses/media-arts-and-sciences/mas-836-sensor-technologies-for-interactive-environments-spring-2011/readings/MITMAS_836S11_read02_bias.pdf> [retrieved on 20201028]

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

DOCDB simple family (publication)
FR 2967260 A1 20120511; **FR 2967260 B1 20121116**; CN 103492887 A 20140101; CN 103492887 B 20170208; EP 2638406 A1 20130918; JP 2013545429 A 20131219; JP 5989654 B2 20160907; US 2013285646 A1 20131031; US 9429596 B2 20160830; WO 2012062789 A1 20120518

DOCDB simple family (application)
FR 1004379 A 20101109; CN 201180064122 A 20111109; EP 11781530 A 20111109; EP 2011069714 W 20111109; JP 2013538176 A 20111109; US 201113883876 A 20111109