

Title (en)
MEASURING AMPLIFIER DEVICE

Title (de)
MESSVERSTÄRKERVORRICHTUNG

Title (fr)
AMPLIFICATEUR DE MESURE

Publication
EP 1495295 A2 20050112 (DE)

Application
EP 03725012 A 20030411

Priority
• DE 10216344 A 20020413
• EP 0303781 W 20030411

Abstract (en)
[origin: WO03087749A2] The invention relates to a measuring amplifier device and to a measuring method for use with measuring bridges supplied with rectangular carrier frequencies, which comprises, after the amplifier circuit (3), at least one evaluating and arithmetic circuit (5). To this end, the evaluating circuit contains sampling (4) or comparison means (7, 8, 9, 10, 11), which sample the modulated measurement signal (Um) at least during a carrier frequency period (T) or compare it with a periodic reference signal (UD). For each half-wave of a carrier frequency period (T), amplitude values (Ap, An) or pulse-width modulated signals (UKp, UKn,) are generated from which the difference representing a direct value of the recorded measured quantity is calculated in the arithmetic circuit (5).

IPC 1-7
G01L 1/22; **G01R 17/02**; **G01G 3/142**

IPC 8 full level
G01G 3/147 (2006.01); **G01L 1/22** (2006.01); **G01L 9/04** (2006.01)

CPC (source: EP)
G01G 3/147 (2013.01); **G01L 1/22** (2013.01); **G01L 9/04** (2013.01)

Citation (search report)
See references of WO 03087749A2

Citation (examination)
HOROWITZ: "the art of electronics", 1989, CAMBRIDGE UNIVERSITY PRESS, CAMBRIDGE, SECOND EDITION

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 03087749 A2 20031023; **WO 03087749 A3 20040205**; DE 10216344 A1 20031023; EP 1495295 A2 20050112

DOCDB simple family (application)
EP 0303781 W 20030411; DE 10216344 A 20020413; EP 03725012 A 20030411