

Title (en)

ELECTRICAL SUPPLY FOR LOW OPERATING VOLTAGE AND HIGH OUTPUT RESISTANCE

Title (de)

STROMQUELLE FÜR NIEDRIGE BETRIEBSSPANNUNGEN MIT HOHEM AUSGANGSWIDERSTAND

Title (fr)

SOURCE DE COURANT POUR TENSIONS DE FONCTIONNEMENT BASSES AVEC RESISTANCE DE SORTIE ELEVEE

Publication

**EP 1206733 A1 20020522 (DE)**

Application

**EP 00969210 A 20000824**

Priority

- DE 0002937 W 20000824
- DE 19940382 A 19990825

Abstract (en)

[origin: DE19940382A1] The invention relates to an electrical source (30) with a high output resistance which has a current determining transistor (12) and a regulating switch (13). The regulating switch (13) has an amplifier circuit (14) with transistors (15, 16) and a regulating transistor (17) and allows the electrical supply to have a high output resistance. To enable use of the electrical supply (30) even at very low operating voltages, according to this invention a sourcing-circuit (31) is provided, which is used for the setting of a freely selectable minimal decrease in voltage over the supply. The sourcing-circuit (31) has one or more transistors (32, 33) and influences the voltage (Vds) at the current determining transistor (12). The output resistance of the electrical source can be further improved by utilizing a correcting circuit (41) which has resistors (42, 43).

IPC 1-7

**G05F 3/24**

IPC 8 full level

**G05F 3/24** (2006.01)

CPC (source: EP US)

**G05F 3/242** (2013.01 - EP US)

Citation (search report)

See references of WO 0114946A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**DE 19940382 A1 20010308**; EP 1206733 A1 20020522; US 2002113641 A1 20020822; US 6556070 B2 20030429; WO 0114946 A1 20010301

DOCDB simple family (application)

**DE 19940382 A 19990825**; DE 0002937 W 20000824; EP 00969210 A 20000824; US 8233702 A 20020225