

Title (en)
Current source and current source arrangement

Title (de)
Stromquelle und Stromquellenanordnung

Title (fr)
Source de courant et agencement de source de courant

Publication
EP 2197244 A1 20100616 (EN)

Application
EP 08021645 A 20081212

Priority
EP 08021645 A 20081212

Abstract (en)
A current source comprises an output terminal adapted to be connected to a load and a controllable output device connected to the output terminal. A first loop (Loop1) comprises a first sensing path having a sensing transistor (Ms1). A second loop (Loop2) comprises a second sensing path with a sensing transistor (Ms2) and a supply source to provide a supply signal (Vgen) at an output terminal thereof. The controllable output device (Mp) and the first and second sensing paths are coupled to the output terminal of the supply source. The first loop (Loop1) is adapted to provide a control signal (Vg) to the controllable output device and to the sensing transistor of the second sensing path. The second sensing path is coupled to the first sensing path and adapted to restrict the sensing transistor (Ms2) of the second sensing path to operate in a linear region of its characteristics.

IPC 8 full level
H05B 44/00 (2022.01)

CPC (source: EP)
G05F 3/262 (2013.01)

Citation (search report)

- [A] DE 10013216 A1 20010920 - TRIDONIC BAUELEMENTE [AT]
- [A] US 2004208011 A1 20041021 - HORIUCHI SACHITO [JP], et al
- [A] US 5929617 A 19990727 - BROKAW A PAUL [US]

Cited by
CN104184320A; EP2533128A1; US8421526B2; WO2012168051A1; EP2221706A1; WO2010092026A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2197244 A1 20100616; EP 2197244 B1 20110803; AT E519355 T1 20110815

DOCDB simple family (application)
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