

Title (en)

SOLID-STATE HIGH VOLTAGE LINEAR REGULATOR CIRCUIT

Title (de)

LINEARE HOCHSPANNUNGSHALBLEITERREGLERSCHALTUNG

Title (fr)

CIRCUIT REGULATEUR LINEAIRE HAUTE TENSION A SEMI-CONDUCTEURS

Publication

EP 1018064 A1 20000712 (EN)

Application

EP 96935908 A 19960923

Priority

US 9615200 W 19960923

Abstract (en)

[origin: WO9812613A1] A regulator circuit (10, 50) for connection to a high voltage generator (16, 52). The regulator circuit may be coupled to the generator in either a series or a shunt configuration. In the shunt configuration, the regulator circuit (10) varies the amount of current through a shunt resistor (R1) to change the output voltage provided to a load. The amount of current that is shunted by the regulator circuit is controlled by a feedback circuit consisting of a voltage divider (20) and an error amplifier (22). In the series configuration, the voltage across the regulator circuit (50) is added to the output from the high voltage generator. The current conducted through the regulator circuit therefore varies the summed output provided to the load.

IPC 1-7

G05F 1/10; **G05F 3/02**; **G05F 1/613**

IPC 8 full level

G05F 1/56 (2006.01); **G05F 1/613** (2006.01)

CPC (source: EP)

G05F 1/56 (2013.01); **G05F 1/613** (2013.01)

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9812613 A1 19980326; AU 7243296 A 19980414; DE 69634919 D1 20050811; DE 69634919 T2 20060518; EP 1018064 A1 20000712; EP 1018064 A4 20000712; EP 1018064 B1 20050706

DOCDB simple family (application)

US 9615200 W 19960923; AU 7243296 A 19960923; DE 69634919 T 19960923; EP 96935908 A 19960923