

Title (en)

High voltage regulator and corresponding voltage regulation method

Title (de)

Hochspannungsregelungsschaltung und entsprechendes Spannungsregelungsverfahren

Title (fr)

Régulateur de haute tension et méthode de régulation de tension correspondante

Publication

EP 0915408 B1 20030219 (EN)

Application

EP 97830575 A 19971105

Priority

EP 97830575 A 19971105

Abstract (en)

[origin: EP0915408A1] This invention relates to a high voltage regulator partly supplied by a boosted voltage (PUMPOUT) and adapted to deliver a regulated output voltage (Vout) on an output terminal (OUT), starting from a sampled voltage (Vsample) obtained by dividing the regulated output voltage (Vout), which regulator comprises at least a comparator element (2) being supplied a supply voltage (Vdd) and feedback connected to a divider (4) of the regulated output voltage (Vout), the divider (4) being a diode type of divider connected between the output terminal (OUT) and a first comparison voltage reference (GND, Vref_v) and having a central connection node (Y, Z) connected to a non-inverting terminal of the comparator element (2). The invention also relates to a method of regulating a voltage (Vout) derived from a boosted voltage (PUMPOUT), comprising the steps of: obtaining a sampled voltage (Vsample) as the voltage value at a central connection node (Y, Z) of a diode type of divider (4) connected to a reference of the voltage to be regulated (Vout) and connected to a first comparison voltage reference (GND, Vref_v); regulating this voltage (Vout) according to the comparison of said sampled voltage (Vsample) with a second comparison voltage reference (Vref_v, GND).
<IMAGE>

IPC 1-7

G05F 1/00; **G05F 1/46**

IPC 8 full level

G05F 1/46 (2006.01); **G05F 3/24** (2006.01)

CPC (source: EP)

G05F 1/465 (2013.01); **G05F 3/247** (2013.01)

Cited by

CN108205352A

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0915408 A1 19990512; **EP 0915408 B1 20030219**; DE 69719188 D1 20030327; DE 69719188 T2 20031204

DOCDB simple family (application)

EP 97830575 A 19971105; DE 69719188 T 19971105