

Title (en)

VOLTAGE REGULATING CIRCUIT FOR ELIMINATING "LATCH-UP

Title (de)

SPANNUNGSREGELUNGSSCHALTUNG ZUR UNTERDRÜCKUNG DES LATCH-UP PHÄNOMEN

Title (fr)

CIRCUIT DE REGULATION DE TENSION DESTINE A SUPPRIMER UN PHENOMENE DIT "LATCH-UP"

Publication

EP 1010048 A1 20000621 (FR)

Application

EP 98929294 A 19980511

Priority

- EP 98929294 A 19980511
- EP 9802749 W 19980511
- EP 97107722 A 19970512

Abstract (en)

[origin: EP0878752A1] The voltage regulator has a series bipolar transistor (2) to adjust the voltage output. The base voltage of the transistor is controlled by a resistor (5) and Zener diode (6) connected across the unregulated potential source, with the base connected to the junction between the resistor and the Zener diode. In addition, a voltage detector circuit (11) is connected across the regulated output and is also connected to the base of the transistor. The voltage detector causes the transistor to switch to the blocking state when latch up occurs. Filter capacitors (3,9) are fitted across the unregulated and the regulated supplies.

IPC 1-7

G05F 1/00; **G05F 1/575**

IPC 8 full level

H01L 23/62 (2006.01); **G05F 1/00** (2006.01); **G05F 1/10** (2006.01); **G05F 1/56** (2006.01); **G05F 1/575** (2006.01); **H02J 1/00** (2006.01); **H03K 17/60** (2006.01)

CPC (source: EP KR US)

G05F 1/00 (2013.01 - KR); **G05F 1/575** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE DE FR GB NL

DOCDB simple family (publication)

EP 0878752 A1 19981118; AT E217102 T1 20020515; CA 2289935 A1 19981119; DE 69805188 D1 20020606; DE 69805188 T2 20021128; EP 1010048 A1 20000621; EP 1010048 B1 20020502; JP 2001525091 A 20011204; KR 20010012426 A 20010215; US 6184664 B1 20010206; WO 9852111 A1 19981119

DOCDB simple family (application)

EP 97107722 A 19970512; AT 98929294 T 19980511; CA 2289935 A 19980511; DE 69805188 T 19980511; EP 9802749 W 19980511; EP 98929294 A 19980511; JP 54879098 A 19980511; KR 19997010379 A 19991110; US 42322899 A 19991104