

Title (en)

Method and apparatus for controlling the power consumption of an electronic device.

Title (de)

Verfahren und Vorrichtung zur Steuerung der Leistungsaufnahme eines elektronischen Gerätes.

Title (fr)

Procédé et dispositif de commande de la consommation de puissance d'un appareil électronique.

Publication

EP 0678963 A3 19961106 (EN)

Application

EP 95302570 A 19950418

Priority

FI 941790 A 19940418

Abstract (en)

[origin: EP0678963A2] The invention relates to a method for reducing power consumption of an electronic device comprising at least one voltage regulator. The regulating loop of at least one voltage regulator of the electronic device is controlled into a slower mode during periods when normal voltage regulator accuracy is not required, this period being known by the electronic device. The voltage regulator loop is controlled into a slower mode by switching the slew rate into a slower mode with the aid of an auxiliary input (SLEEP) arranged in the voltage regulator's differential amplifier (2) and by decreasing the current flowing through the differential amplifier. The invention is applicable in different electronic devices, particularly in battery powered devices in order to increase the operational time of the battery. For instance, in order to reduce the power consumption the voltage regulator of a mobile telephone can be switched into a slower mode between the control channel messages received from a base station. <IMAGE>

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IPC 8 full level

H02J 1/00 (2006.01); **G05F 1/56** (2006.01); **H04B 7/26** (2006.01)

CPC (source: EP)

G05F 1/56 (2013.01)

Citation (search report)

- [A] US 5142219 A 19920825 - HSU WEI-CHAN [US], et al
- [A] "LOW DISSIPATION REGULATOR", ELEKTOR ELECTRONICS, vol. 15, no. 169, July 1989 (1989-07-01), pages 23, XP000050083

Cited by

CN100388149C; US6081733A; EP1148404A1; FR2807846A1; US6501253B2; US7053592B2

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