

Title (en)

Integrated circuit with parts supplied with a different supply voltage

Title (de)

Integrierte Schaltung mit Schaltungsstellen mit unterschiedlicher Versorgungsspannung

Title (fr)

Circuit intégré avec des parties alimentées avec une tension différente

Publication

EP 1197825 B1 20090527 (DE)

Application

EP 01121398 A 20010906

Priority

DE 10050561 A 20001012

Abstract (en)

[origin: EP1197825A2] The device has first parts whose supply voltage is the same as the external voltage supply and second parts with a lower supply voltage derived from the first. The internal supply voltage is provided by an active potential divider with a first resistive potential divider between the supply voltage and reference potential, an impedance converter and a circuit for load-dependent control of the resistive potential divider tapping voltage. The device has first parts whose supply voltage is the same as the external voltage supply and second parts with a lower supply voltage derived from the first supply voltage. The internal supply voltage is provided by an active potential divider containing a first resistive potential divider (R1, R2) between the supply voltage connection (Pad) and a reference potential, an impedance converter (T1) and a circuit for load-dependent control of the divided voltage at the tapping (X) of the first resistive potential divider.

IPC 8 full level

G05F 1/46 (2006.01); **H01L 27/04** (2006.01); **G05F 3/24** (2006.01); **H01L 21/822** (2006.01); **H03K 19/0175** (2006.01)

CPC (source: EP US)

G05F 1/465 (2013.01 - EP US); **G05F 3/247** (2013.01 - EP US); **H01L 2924/0002** (2013.01 - EP US)

Cited by

EP1369762A1; US6952596B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1197825 A2 20020417; **EP 1197825 A3 20040707**; **EP 1197825 B1 20090527**; AT E432491 T1 20090615; DE 10050561 A1 20020516; DE 10050561 B4 20050428; DE 50114910 D1 20090709; HK 1048671 A1 20030411; JP 2002185302 A 20020628; US 2002043670 A1 20020418; US 6605833 B2 20030812

DOCDB simple family (application)

EP 01121398 A 20010906; AT 01121398 T 20010906; DE 10050561 A 20001012; DE 50114910 T 20010906; HK 02107542 A 20021017; JP 2001287045 A 20010920; US 97561701 A 20011011