

Title (en)  
Generating circuit for reference voltage

Title (de)  
Referenzspannung-Erzeugungsschaltung

Title (fr)  
Circuit générateur de tension de référence

Publication  
**EP 0952508 B1 20010829 (DE)**

Application  
**EP 99105491 A 19990317**

Priority  
DE 19818464 A 19980424

Abstract (en)  
[origin: EP0952508A1] The circuit has a first stage (T1,T3) providing a first voltage with a negative temperature coefficient and a second stage (T1-T4,R1-R4) providing a difference voltage with a positive temperature coefficient via 2 further voltages. The reference voltage is obtained by combining the first voltage and the difference voltage. The first voltage and each of the further voltages is obtained as a sum voltage of a pair of pn junction voltages.

IPC 1-7  
**G05F 1/56**; G05F 1/575; G05F 3/30; G06G 7/10; H03F 1/30; H03K 3/02; H03K 5/24

IPC 8 full level  
**G05F 1/56** (2006.01); **G05F 1/575** (2006.01); **G05F 3/22** (2006.01); **G05F 3/30** (2006.01); **G06G 7/10** (2006.01); **H03F 1/30** (2006.01); **H03K 3/02** (2006.01); **H03K 5/24** (2006.01); **G05F 3/26** (2006.01)

CPC (source: EP US)  
**G05F 3/225** (2013.01 - EP US); **G05F 3/265** (2013.01 - EP US); **G05F 3/267** (2013.01 - EP US)

Designated contracting state (EPC)  
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