

Title (en)  
Systems and methods for generating reference voltages

Title (de)  
Vorrichtungen und Verfahren zur Erzeugung von Referenzspannungen

Title (fr)  
Systèmes et procédés pour générer des tensions de référence

Publication  
**EP 1763015 A1 20070314 (EN)**

Application  
**EP 05019572 A 20050908**

Priority  
EP 05019572 A 20050908

Abstract (en)  
Systems and methods for generating reference voltages are provided. A representative system comprises a resistor circuit (32); a first switch (SW1) coupled between a first end of the resistor circuit (C) and first power source (Vss); a second switch (SW2) coupled between the first end of the resistor circuit (C) and a second power source (Vcc); a third switch (SW3) coupled to a second end of the resistor circuit (D); a fourth switch (SW4) coupled to the second end of the resistor circuit (D); a first resistor (R1) coupled between the first end of the resistor circuit and the first switch; a second resistor (R2) coupled between the first end of the resistor circuit and the second switch; a third resistor (R3) coupled between the second end of the resistor circuit and the third switch; a fourth resistor (R4) coupled between the second end of the resistor circuit and the fourth switch; and a control circuit (34) for controlling the switches.

IPC 8 full level  
**G09G 3/36** (2006.01)

CPC (source: EP)  
**G09G 3/3696** (2013.01); **G09G 3/3611** (2013.01); **G09G 3/3614** (2013.01); **G09G 2320/0219** (2013.01); **G09G 2330/021** (2013.01); **G09G 2340/0428** (2013.01)

Citation (search report)  
• [X] WO 2004059603 A2 20040715 - CASIO COMPUTER CO LTD [JP], et al  
• [A] EP 1335344 A2 20030813 - SEIKO EPSON CORP [JP]  
• [A] US 2002097208 A1 20020725 - HASHIMOTO YOSHIHARU [JP]  
• [A] JP 2004348122 A 20041209 - MATSUSHITA ELECTRIC IND CO LTD & PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

Cited by  
US7907110B2; WO2008124051A1

Designated contracting state (EPC)  
DE FR GB IT NL

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1763015 A1 20070314**

DOCDB simple family (application)  
**EP 05019572 A 20050908**