

Title (en)

METHOD AND SYSTEM FOR REDUCING SOFT-WRITING IN A MULTI-LEVEL FLASH MEMORY

Title (de)

VERFAHREN UND SYSTEM ZUR VERRINGERUNG DES SOFT-SCHREIBENS IN EINEM MEHREBENEN-FLASH-SPEICHER

Title (fr)

PROCEDE ET SYSTEME DE DIMINUTION DU "SOFT-WRITING" DANS UNE MEMOIRE FLASH A MULTINIVEAUX

Publication

**EP 1839312 A2 20071003 (EN)**

Application

**EP 05855037 A 20051220**

Priority

- US 2005046412 W 20051220
- IT MI20042538 A 20041229
- US 14417405 A 20050602

Abstract (en)

[origin: WO2006071686A2] A system and method for reducing soft-writing in a multilevel flash memory during read or verify includes a memory cell. A first and second reference cells are coupled to the memory cell and are configured to receive a first and a second voltage. A current comparison circuit is coupled to the first and second reference cells and to the memory cell and is configured to compare current flow through the memory cell with current flow through the first and second reference cells, and to determine whether the memory cell holds a first range of values while the first reference cell receives the first voltage, and if the memory cell does not hold the first range of values, to determine whether the memory cell holds a second range of values while the second reference cell receives the second voltage, thereby reducing soft-writing during the read operation.

IPC 8 full level

**G11C 11/34** (2006.01)

CPC (source: EP)

**G11C 16/3454** (2013.01); **G11C 16/3459** (2013.01)

Citation (search report)

See references of WO 2006071686A2

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**WO 2006071686 A2 20060706; WO 2006071686 A3 20070412; EP 1839312 A2 20071003**

DOCDB simple family (application)

**US 2005046412 W 20051220; EP 05855037 A 20051220**