

Title (en)

HIGH-PERFORMANCE FLASH MEMORY DATA TRANSFER

Title (de)

HOCHLEISTUNGS-FLASH-SPEICHER-DATENÜBERTRAGUNG

Title (fr)

TRANSFERT DE DONNÉES DE MÉMOIRE FLASH DE HAUTE PERFORMANCE

Publication

EP 2011122 A2 20090107 (EN)

Application

EP 07761017 A 20070420

Priority

- US 2007067090 W 20070420
- US 37989506 A 20060424
- US 37991006 A 20060424
- US 42457306 A 20060616
- US 42458106 A 20060616
- US 45842206 A 20060719
- US 45843106 A 20060719

Abstract (en)

[origin: WO2007127678A2] A flash memory system including a flash memory device and a controller, operable according to an advanced data transfer mode is disclosed. The flash memory device is operable both in a "legacy" mode, in which read data is presented by the memory synchronously with each cycle of a read data strobe from the controller, and in which input data is latched by the memory synchronously with each cycle of a write data strobe from the controller. In the advanced mode, which can be initiated by the controller forwarding an initiation command to the memory, data is read at a higher frequency, for example at twice the frequency, of that available in the normal mode. In the advanced mode, the input data is presented by the controller at a higher frequency than is available in the normal mode. The voltage swing of the data and control signals is reduced from conventional standards, to reduce power consumption.

IPC 8 full level

G11C 7/10 (2006.01); **G11C 7/20** (2006.01); **G11C 7/22** (2006.01)

CPC (source: EP KR)

G06F 13/1668 (2013.01 - KR); **G11C 7/1045** (2013.01 - EP); **G11C 7/1048** (2013.01 - KR); **G11C 7/1066** (2013.01 - EP); **G11C 7/1093** (2013.01 - EP); **G11C 7/20** (2013.01 - EP); **G11C 7/22** (2013.01 - EP KR); **G11C 16/06** (2013.01 - KR); **G11C 16/26** (2013.01 - EP)

Citation (search report)

See references of WO 2007127678A2

Cited by

US9792994B1; WO2013148354A3; US9053066B2; US9385721B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007127678 A2 20071108; **WO 2007127678 A3 20080207**; CN 101479804 A 20090708; CN 101479804 B 20130501; EP 2011122 A2 20090107; JP 2009534785 A 20090924; JP 5226669 B2 20130703; KR 101458381 B1 20141107; KR 20090026267 A 20090312; TW 200818206 A 20080416; TW I486964 B 20150601

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