

Title (en)  
Multi-port memory based on DRAM core

Title (de)  
Multiportspeicher auf Basis von DRAM

Title (fr)  
Mémoire multiportes basée sur une DRAM

Publication  
**EP 1564749 B8 20090218 (EN)**

Application  
**EP 05010996 A 20011002**

Priority

- EP 01308424 A 20011002
- JP 2000387891 A 20001220
- JP 2000398893 A 20001227
- JP 2000399052 A 20001227
- JP 2001034361 A 20010209
- JP 2001037547 A 20010214

Abstract (en)  
[origin: EP1220226A2] A semiconductor memory device includes a plurality of N external ports, each of which receives commands, and an internal circuit which performs at least N access operations during a minimum interval of the commands that are input into one of the external ports.

IPC 8 full level  
**G11C 8/16** (2006.01); **G11C 11/4096** (2006.01); **G11C 7/10** (2006.01); **G11C 7/22** (2006.01); **G11C 11/409** (2006.01)

CPC (source: EP KR US)  
**G11C 7/1039** (2013.01 - EP US); **G11C 7/1051** (2013.01 - EP US); **G11C 7/1075** (2013.01 - EP US); **G11C 7/1078** (2013.01 - EP US); **G11C 7/22** (2013.01 - EP US); **G11C 8/16** (2013.01 - EP US); **G11C 11/406** (2013.01 - EP US); **G11C 11/40603** (2013.01 - EP US); **G11C 11/40615** (2013.01 - EP US); **G11C 11/40618** (2013.01 - EP US); **G11C 11/409** (2013.01 - EP US); **G11C 11/4096** (2013.01 - KR); **G11C 2207/107** (2013.01 - EP US)

Designated contracting state (EPC)  
DE FR

DOCDB simple family (publication)  
**EP 1220226 A2 20020703**; **EP 1220226 A3 20021218**; **EP 1220226 B1 20050817**; CN 1271636 C 20060823; CN 1360314 A 20020724; DE 60112701 D1 20050922; DE 60112701 T2 20060518; DE 60132382 D1 20080221; DE 60132382 T2 20080724; DE 60136574 D1 20081224; DE 60142756 D1 20100916; EP 1564748 A2 20050817; EP 1564748 A3 20060329; EP 1564748 B1 20080109; EP 1564749 A2 20050817; EP 1564749 A3 20060329; EP 1564749 B1 20081112; EP 1564749 B8 20090218; EP 1808861 A1 20070718; EP 1808861 B1 20100804; KR 100801119 B1 20080205; KR 20020050092 A 20020626; TW 526500 B 20030401; US 2002078311 A1 20020620

DOCDB simple family (application)  
**EP 01308424 A 20011002**; CN 01139358 A 20011126; DE 60112701 T 20011002; DE 60132382 T 20011002; DE 60136574 T 20011002; DE 60142756 T 20011002; EP 05010995 A 20011002; EP 05010996 A 20011002; EP 07103542 A 20011002; KR 20010066494 A 20011026; TW 90124818 A 20011008; US 96851601 A 20011002