



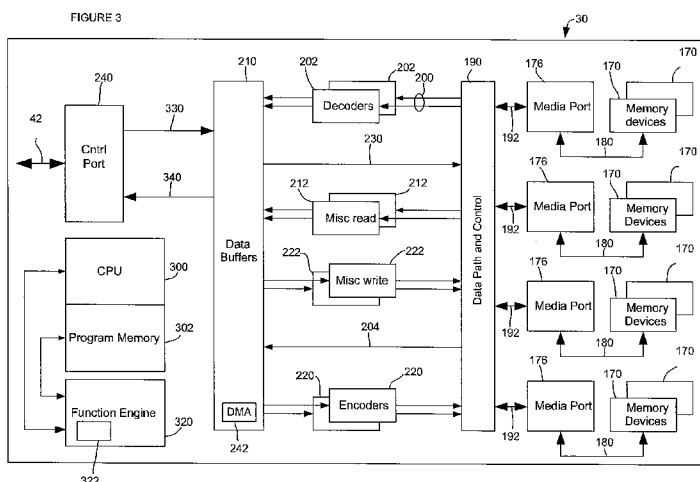
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(54) Title: CONTROL ARRANGEMENTS AND METHODS FOR ACCESSING BLOCK ORIENTED NONVOLATILE MEMORY



(57) Abstract: A read/write arrangement is described for use in accessing at least one nonvolatile memory device in read/write operations with the memory device being made up of a plurality of memory cells which memory cells are organized as a set of pages that are physically and sequentially addressable with each page having a page length such that a page boundary is defined between successive ones of the pages in the set. The read/write arrangement includes a control arrangement that is configured to store and access a group of data blocks that is associated with a given write operation in a successive series of pages of the memory such that at least an initial page in the series is filled and each block includes a block length that is different than the page length.

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A. CLASSIFICATION OF SUBJECT MATTER*G06F 12/06(2006.01)i, G11C 16/06(2006.01)i*

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G06F 12/06; G06F 12/02; G06F 12/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: memory cell, page, block, length

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 7716448 B2 (SCHNEIDER JAMES P.) 11 May 2010 See column 1, lines 31-35, column 2 lines 7-8, fig.1	1-28
A	US 2009-0276601 A1 (KANCHERLA MANI PRASAD) 05 November 2009 See abstract, claim 1	1-28
A	US 2010-0057978 A1 (TAKAMURA YUKIYOSHI et al.) 04 March 2010 See abstract, claim 1, fig.1	1-28

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 7716448 B2	11.05.2010	US 2008-0209153 A1 US 2008-0209154 A1 US 7711921 B2	28.08.2008 28.08.2008 04.05.2010
US 2009-0276601 A1	05.11.2009	US 7594093 B1 US 8015387 B2	22.09.2009 06.09.2011
US 2010-0057978 A1	04.03.2010	JP 2010-055210 A US 8180952 B2	11.03.2010 15.05.2012