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[Continued on next page]

(54) **Title:** SHARED MEMORY BETWEEN CHILD AND PARENT PARTITIONS

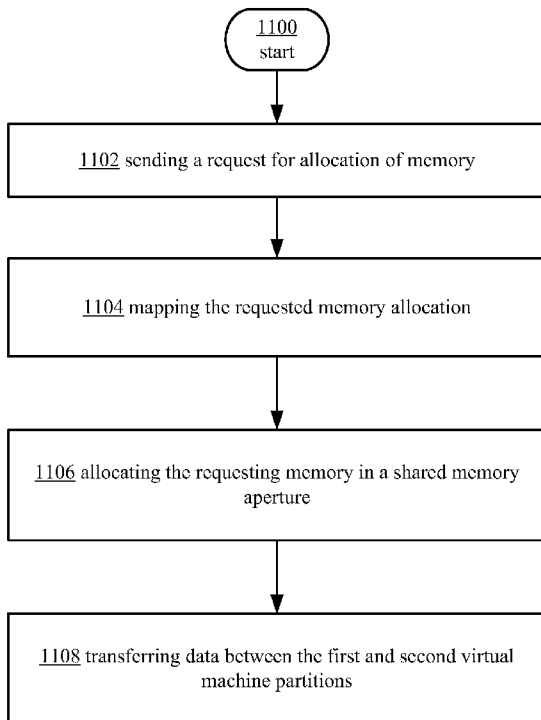
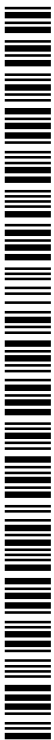


FIG. 11

(57) **Abstract:** A mechanism for the creation of a shared memory aperture between modes in a parent and child partition is described. The shared memory aperture can be created between any memory mode between the guest and any host. For example, a shared memory aperture can be created between the kernel mode on the child partition and the user mode on the parent partition.





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- *with international search report (Art. 21(3))*
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**A. CLASSIFICATION OF SUBJECT MATTER***G06F 9/06(2006.01)i, G06F 9/44(2006.01)i, G06F 13/14(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 9/06; G06F 3/048; G06F 7/00; G06F 12/00; G06F 12/08; G06F 13/00

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) &amp; Keywords: shared memory aperture, between parents and child partition, transferring data, between virtual machine partition;

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2004-0250021 A1 (HONDA KIYOSHI et al.) 09 December 2004 See the abstract, claims 27-36 and figures 1-30.	1-10
A	US 2004-0255178 A1 (HUNG CHI-CHENG) 16 December 2004 See the abstract, claims 1-20 and figures 1-6.	1-10
A	US 2009-0100089 A1 (EADON GEORGE et al.) 16 April 2009 See the abstract, claims 1-25 and figures 1-7.	1-10
A	US 2010-0169814 A1 (ZHANG YU) 01 July 2010 See the abstract, claims 1-16 and figures 1-8.	1-10

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

\* Special categories of cited documents:

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Information on patent family members

International application No.

**PCT/US2011/051662**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2004-0250021 A1	09.12.2004	EP 0839960 A2	06.05.1998
		EP 0839960 A3	27.05.1998
		JP 04-509089 B2	14.05.2010
		JP 04-606711 B2	15.10.2010
		JP 2004-227558 A	12.08.2004
		JP 2007-048323 A	22.02.2007
		US 2002-0046692 A1	25.04.2002
		US 2002-0066400 A1	06.06.2002
		US 2004-0025779 A1	12.02.2004
		US 2004-0025780 A1	12.02.2004
		US 2004-0103261 A1	27.05.2004
		US 2006-0195676 A1	31.08.2006
		US 2007-0162721 A1	12.07.2007
		US 2007-0186842 A1	16.08.2007
		US 2007-0192558 A1	16.08.2007
		US 7182040 B2	27.02.2007
		US 7188582 B2	13.03.2007
		US 7263593 B2	28.08.2007
		US 7366853 B2	29.04.2008
		US 7412942 B2	19.08.2008
US 7694104 B2	06.04.2010		
US 7877568 B2	25.01.2011		
US 2004-0255178 A1	16.12.2004	US 7120772 B2	10.10.2006
US 2009-0100089 A1	16.04.2009	US 7870174 B2	11.01.2011
US 2010-0169814 A1	01.07.2010	CN 101763328 A	30.06.2010