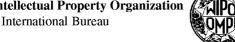
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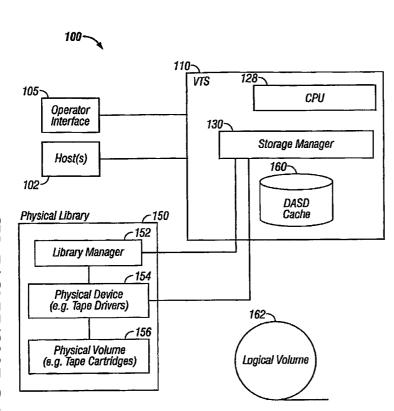
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[Continued on next page]

(54) Title: DYNAMIC LOADING OF VIRTUAL VOLUME DATA IN A VIRTUAL TAPE SERVER



(57) Abstract: Disclosed are a system, a method, and article of manufacture to provide for obtaining data storage device specific information from a data storage device using standard read/write commands. This method uses a host application to write a unique sequence of records to a logical volume of the data storage device. The data storage device detects the unique sequence of records for the logical volume and writes device specific information to the logical volume allowing the host application the ability to read the data storage device specific information using a read command for the logical volume.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSII		A. CLASSIFICATION OF SUBJECT MATTER						
G06F3/06								
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	C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.					
.,								
Х	US 6 058 455 A (ISLAM ET AL)		1-3,5,					
	2 May 2000 (2000-05-02)		7-12, 14-17					
Α	column 1, line 14 - line 18		4,6,13					
	column 4, line 13 - line 46		. , - ,					
	column 5, line 11 - line 47	_						
	column 5, line 64 - column 6, lin							
	column 7, line 7 - line 38; figur table 1	e 1;						
	column 9, line 1 - line 49; figur	res 1.3						
Α	WO 03/014909 A (INTERNATIONAL BUS		4,6,11,					
	MACHINES CORPORATION; IBM UNITED		13					
	LIMITE) 20 February 2003 (2003-02 abstract; figure 2	(-20)						
:								
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INTERNATIONAL SEARCH REPORT

onal Application No PCT/EP2005/052191

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 6058455 A	02-05-2000	US US	6282670 B1 6282619 B1	28-08-2001 28-08-2001
WO 03014909 A	20-02-2003	CA CN EP JP TW US	2451048 A1 1539100 A 1415221 A2 2004538569 T 591489 B 2003037184 A1	20-02-2003 20-10-2004 06-05-2004 24-12-2004 11-06-2004 20-02-2003