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[Continued on next page]

(54) Title: ARCHIVING DATA OBJECTS USING SECONDARY COPIES

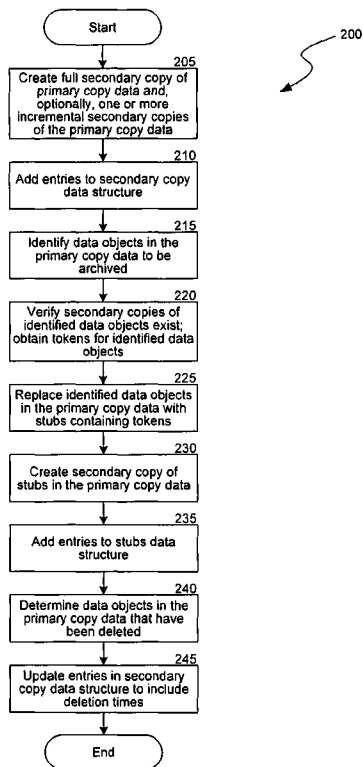


FIG. 2

(57) Abstract: A system for archiving data objects using secondary copies is disclosed. The system creates one or more secondary copies of primary copy data that contains multiple data objects. The system maintains a first data structure that tracks the data objects for which the system has created secondary copies and the locations of the secondary copies. To archive data objects in the primary copy data, the system identifies data objects to be archived, verifies that previously-created secondary copies of the identified data objects exist, and replaces the identified data objects with stubs. The system maintains a second data structure that both tracks the stubs and refers to the first data structure, thereby creating an association between the stubs and the locations of the secondary copies. Notably, the system archives data objects in primary copy data without creating an additional or other secondary copy of the data objects. Instead, the association between the two data structures allows stubs to point to or refer to the previously-created secondary copy of the data objects. Accordingly, the existence of the previously-created secondary copy of the data objects allows the system to forego creating an additional or other secondary copy of the data objects, thereby saving resources.

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DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,  
LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE,  
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,  
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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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 12/16; G06F 15/16; G06F 7/00; 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) &amp; Keywords: archive, backup, entry, identifier

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003-0018878 A1 (SEAN MATTHEW DORWARD et al.) 23 January 2003 See [0016] - [0074].	1-20
A	US 2006-0020674 A1 (BUFORD L. BRUCE et al.) 26 January 2006 See [0009] - [0027].	1-20
A	US 2003-0065642 A1 (CHRISTOPHER ZEE) 03 April 2003 See [0036] - [0225].	1-20
A	US 2009-0089523 A1 (YNN-PYNG TSAUR et al.) 02 April 2009 See [0008] - [0033].	1-20

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

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"&amp;" document member of the same patent family

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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