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[Continued on next page]

(54) Title: SECURE DISTRIBUTED BACKUP FOR PERSONAL DEVICE AND CLOUD DATA

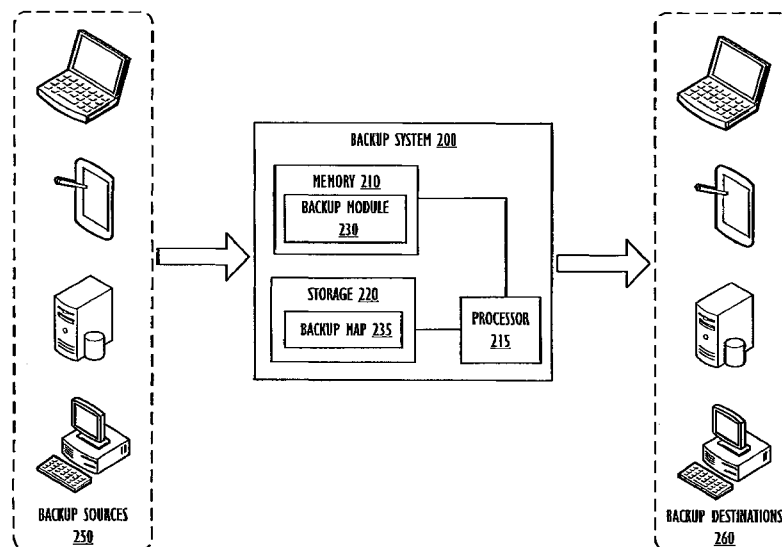
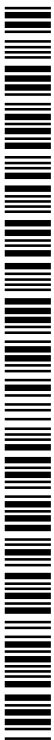


FIG. 2

(57) Abstract: Securely distributing a backup file includes identifying a file to be stored, generating a plurality of file chunks from the file, transmitting from a first device, each of the plurality of file chunks to one of a plurality of storage locations, and generating, at the first device, a map that identifies the storage location for each chunk. Retrieving a distributed backup file includes receiving a request to retrieve a file, obtaining a map corresponding to the file, wherein the map identifies a storage location for each of a plurality of file chunks of the file, retrieving the plurality of file chunks from the identified locations, and generating the requested file by combining the plurality of file chunks.





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, KM, ML, MR, NE, SN, TD, TG).

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**A. CLASSIFICATION OF SUBJECT MATTER****G06F 11/14(2006.01)i, H04L 9/30(2006.01)i, G06F 17/40(2006.01)i, G06F 15/16(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 11/14; G06F 15/16; G06F 17/30; G06F 12/14; G06F 1/00; H04L 9/30; G06F 17/40Documentation 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 modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
eKOMPASS(KIPO internal) & Keywords: file, chunks, encrypted, distribute, storage, map, decrypt, and similar terms.**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| Y         | US 2004-0003272 A1 (DAVID FREDERICK BANTZ et al.) 01 January 2004<br>See paragraphs [0032], [0039], and [0044];<br>claims 1, 4, 6, 13, and 17; and figure 1. | 1-25                  |
| Y         | US 2004-0049700 A1 (TAKEO YOSHIDA) 11 March 2004<br>See paragraphs [0024]-[0027], [0032]-[0035], [0039], and [0054];<br>claim 20; and figures 1-4 and 6.     | 1-25                  |
| A         | US 2008-0126357 A1 (XAVIER CASANOVA et al.) 29 May 2008<br>See paragraphs [0054]-[0057] and figure 4.  | 1-25                  |
| A         | EP 1278113 A2 (MICROSOFT CORPORATION) 22 January 2003<br>See paragraphs [0124]-[0127]; claim 1; and figure 8.  | 1-25                  |
| A         | US 2011-0154015 A1 (TAREQ MAHMUD RAHMAN et al.) 23 June 2011<br>See paragraphs [0018] and [0026]; claim 1; and figures 2 and 6.                              | 1-25                  |

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

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Information on patent family members

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| Patent document cited in search report | Publication date | Patent family member(s)  | Publication date   |
|--|------------------|--|--|
| US 2004-0003272 A1                     | 01/01/2004       | US 7213158 B2  | 01/05/2007   |
| US 2004-0049700 A1                     | 11/03/2004       | JP 2004-102842 A<br>JP 4254178 B2<br>US 7337331 B2   | 02/04/2004<br>15/04/2009<br>26/02/2008   |
| US 2008-0126357 A1                     | 29/05/2008       | None   |  |
| EP 1278113 A2                          | 22/01/2003       | EP 1278113 A3<br>US 2002-0194209 A1<br>US 2005-0097077 A1<br>US 2005-0097313 A1<br>US 2005-0097318 A1<br>US 2005-0108240 A1<br>US 7043637 B2<br>US 7401220 B2<br>US 7415608 B2<br>US 7454612 B2<br>US 7539867 B2 | 19/11/2003<br>19/12/2002<br>05/05/2005<br>05/05/2005<br>05/05/2005<br>19/05/2005<br>09/05/2006<br>15/07/2008<br>19/08/2008<br>18/11/2008<br>26/05/2009 |
| US 2011-0154015 A1                     | 23/06/2011       | None   |  |