

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 July 2006 (20.07.2006)

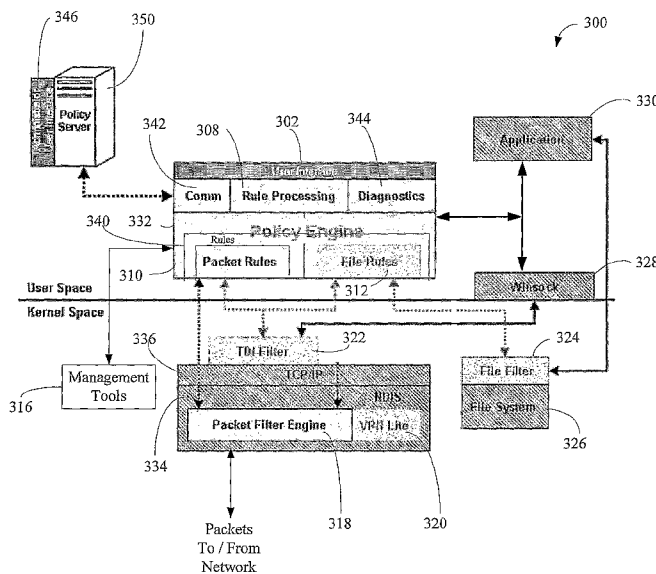
PCT

(10) International Publication Number
WO 2006/076536 A3

- (51) International Patent Classification:
H04N 7/16 (2006.01) H04K 1/00 (2006.01)
- (21) International Application Number:
PCT/US2006/001168
- (22) International Filing Date: 12 January 2006 (12.01.2006)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/644,064 14 January 2005 (14.01.2005) US
60/687,188 3 June 2005 (03.06.2005) US
11/330,530 11 January 2006 (11.01.2006) US
- (71) Applicant (for all designated States except US): SEN-FORCE TECHNOLOGIES, INC. [US/US]; 147 W. Election Road, Suite 110, Draper, UT 84020 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BOUCHER, Peter [US/US]; 717 East 700 North, Orem, UT 84097 (US). WRIGHT, Michael [US/US]; 9180 South Granville Circle, Sandy, UT 84093 (US). CRANNY, Tim [AU/US]; 1814 Lake Street, Sugarhouse, UT 84105 (US). NAULT, Gabe [US/US]; 1194 East Lone Peak Lane, Draper, UT 84020 (US).
- (54) Title: ACCESS CONTROL TO FILES BASED ON SOURCE INFORMATION
- (57) Abstract: The present invention is a security tool for protection of data on a mobile computing device. The security tool provides a plurality of security policies to be enforced based on source information for the data and a location associated with a network environment in which a mobile device is operating. The security tool may be either located at the mobile computing device or at the server. The security tool includes a file access module for determining whether files are visible or accessible. The file access module comprises a tag generator, an association module, and a policy enforcement module. The tag generator creates source information for the file being accessed and the policy enforcement module determines what actions, if any, can be performed on the file and under what conditions such as location and network environment, type of file and other factors.
- (74) Agent: SUEOKA, Greg, T.; FENWICK & WEST LLP, Silicon Valley Center, 801 California Street, Mountain View, CA 94041 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]



WO 2006/076536 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

(88) Date of publication of the international search report:
1 November 2007

(15) Information about Correction:

Previous Correction:

see PCT Gazette No. 47/2006 of 23 November 2006

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.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/01168

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8): H04N 7/16 (2007.01); H04K 1/00 (2007.01) USPC: 380/247 According to International Patent Classification (IPC) or to both national classification and IPC</p>												
<p>B. FIELDS SEARCHED</p> <p>Minimum documentation searched (classification system followed by classification symbols) USPC: 380/247</p> <p>Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched USPC: 726/29</p> <p>Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO; WIPO, EPO, CITESEER, Google patents, Google scholar Search Terms Used: Mobile device file data secure security read write view mail email transfer move access location</p>												
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 5,922,073 A (Shimada) 13 July 1999 (13.07.1999) entire document</td> <td>1-21</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 5,922,073 A (Shimada) 13 July 1999 (13.07.1999) entire document	1-21				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.										
X	US 5,922,073 A (Shimada) 13 July 1999 (13.07.1999) entire document	1-21										
<p><input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/></p>												
<p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"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</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"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</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance	"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	"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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	"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family	"P" document published prior to the international filing date but later than the priority date claimed	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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											
"E" earlier application or patent but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone											
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"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											
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family											
"P" document published prior to the international filing date but later than the priority date claimed												
<p>Date of the actual completion of the international search 09 May 2007 (09.05.2007)</p>		<p>Date of mailing of the international search report 29 AUG 2007</p>										
<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>										