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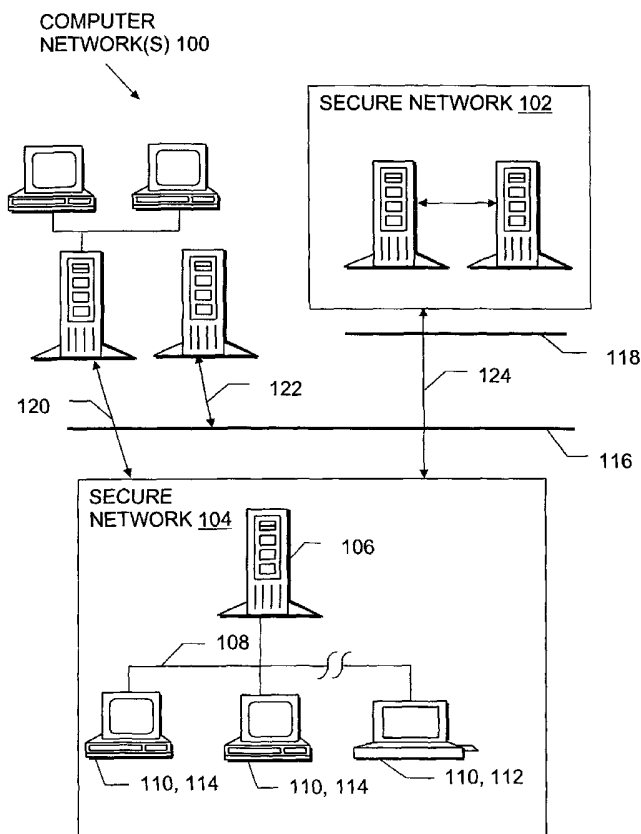
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(54) Title: NON-INVASIVE AUTOMATIC OFFSITE PATCH FINGERPRINTING AND UPDATING SYSTEM AND METHOD



(57) Abstract: Methods, systems, and configured storage media are provided for discovering software updates (232), discovering if a given computer (202) can use the software update, and then updating the computers with the software as needed automatically across a network (200). Furthermore, when a failure is detected (316), the rollout is stopped (318) and the software can be automatically removed (322) from those computers that already were updated. The Software update can be stored originally at an address that is inaccessible through the network firewall (214) by intermediately uploading the software update to an update computer (220) which is not a part of the network but has access to a package computer (230) through the firewall.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/06328

<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G06F 9/44 US CL : 717/173 According to International Patent Classification (IPC) or to both national classification and IPC</p>																			
<p>B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S. : 717/173 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST</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 --- Y</td> <td>US 6,269,456 B1(HODGES et al.) 31 July 2001 (31.07.2001), Figs.3, 5, 8, 10, 11) col.8, lines 30-55, col.4 lines 31-50, col.2, lines 37-42.</td> <td>1-4, 6, 9, 12-23, 25, 28, 31-36, 41, 44-53, 55, 58, 61, 62 ----- 5, 8, 10, 30, 37, 40, 42, 60, 7, 26, 27, 39, 56, 57, 11, 43, 24, 54</td> </tr> <tr> <td>Y</td> <td>US 6, 202,207 B1 (DONOHUE) 13 March 2001 (13.03.2001), FIGS.6, 12, col.10, lines 43-50, col.19, lines 29-32, col.5, lines 23-29, col.7, lines 7-12, col.21, lines 5-16, col.16, lines 30-36.</td> <td>5, 8, 10, 30, 37, 40, 42, 60</td> </tr> <tr> <td>Y, T</td> <td>US 6,721,713 B1 (GUHEEN et al.) 13 April 2004 (13.04.2004), col.264, lines 54-56, col.141, lines 1-23, col.71, lines 25-29, col.75, lines 48-50.</td> <td>7, 26, 27, 39, 56, 57</td> </tr> <tr> <td>Y</td> <td>US 5,805,897 A (GLOWNY) 8 September 1998 (8.9.1998), FIG.3, col.2, lines 30-45.</td> <td>11, 43</td> </tr> <tr> <td>Y</td> <td>US 6,151,643 A (CHENG et al.) 21 November 2000 (21.11.2000), FIG.9, col.9, lines 40-46.</td> <td>24, 54</td> </tr> </tbody> </table>		Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X --- Y	US 6,269,456 B1(HODGES et al.) 31 July 2001 (31.07.2001), Figs.3, 5, 8, 10, 11) col.8, lines 30-55, col.4 lines 31-50, col.2, lines 37-42.	1-4, 6, 9, 12-23, 25, 28, 31-36, 41, 44-53, 55, 58, 61, 62 ----- 5, 8, 10, 30, 37, 40, 42, 60, 7, 26, 27, 39, 56, 57, 11, 43, 24, 54	Y	US 6, 202,207 B1 (DONOHUE) 13 March 2001 (13.03.2001), FIGS.6, 12, col.10, lines 43-50, col.19, lines 29-32, col.5, lines 23-29, col.7, lines 7-12, col.21, lines 5-16, col.16, lines 30-36.	5, 8, 10, 30, 37, 40, 42, 60	Y, T	US 6,721,713 B1 (GUHEEN et al.) 13 April 2004 (13.04.2004), col.264, lines 54-56, col.141, lines 1-23, col.71, lines 25-29, col.75, lines 48-50.	7, 26, 27, 39, 56, 57	Y	US 5,805,897 A (GLOWNY) 8 September 1998 (8.9.1998), FIG.3, col.2, lines 30-45.	11, 43	Y	US 6,151,643 A (CHENG et al.) 21 November 2000 (21.11.2000), FIG.9, col.9, lines 40-46.	24, 54
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<p>Date of the actual completion of the international search 07 March 2005 (07.03.2005)</p>	<p>Date of mailing of the international search report 01 APR 2005</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. (703) 305-3230</p>	<p>Authorized officer <i>Michelle R. Seaman</i> Tuan Q Dam Telephone No. 703-305-3900</p>																		