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- (71) Applicant (for all designated States except US): CITRIX SYSTEMS, INC. [US/US]; 851 West Cypress Creek Road, Fort Lauderdale, FL 33309 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SANDHU, Vikramjeet [IN/US]; c/o Citrix Systems, 851 West Cypress Creek Road, Fort Lauderdale, FL 33309 (US). NORD, Joseph

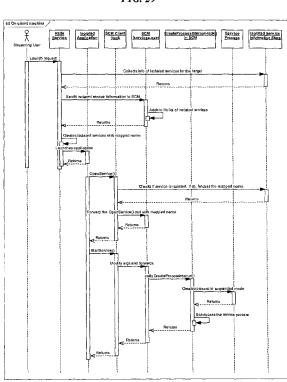
[US/US]; c/o Citrix Systmes, Inc., 851 West Cyrpess Creek Road, Fort Lauderdale, FL 33309 (US).

- (74) Agents: LANZA, John, D. et al.; Foley & Lardner LLP, 111 Huntington Avenue, Boston, MA 02199 (US).
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[Continued on next page]

(54) Title: SYSTEMS AND METHODS FOR SERVICE ISOLATION

FIG. 29



(57) Abstract: The present invention is directed towards systems and methods of streaming an application from a remote location to a local machine system, and using local machine system resources in executing that application. In various embodiments, services needed by a streamed application may be started with high local system privileges in their own isolation environment. These service may be started, stopped, and otherwise managed by a Service Control Manager. In order for an application to both access services that operate at high local system privileges and the network so that it can access remotely stored, streaming, information; a streaming application may rely on privileges of the user when accessing network information rather than the higher privileges of the services running in isolation.

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B. FIELDS SEARCHED

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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

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	WO 2007-121241 A2 (CITRIX SYSTEMS, INC. et al.) 25 October 2007 See abstract, page 2 line 21 - page 3 line 16, page 45 line 27 -page 46 line 10, page 52 line 24 - page 53 line 2, page 54 line 29 - page 55 line 5, page 72 line 28 - line 36, page 127 line 1 - 15, figures 9, 13,	1-2,4-7,11,16-17 ,19-20		
A	24, and all claims.	3,8-10,12-15,18		
A	US 2007-0083610 A1 (TREDER, T. et al.) 12 April 2007 See abstract, paragraphs [0422]-[0454]. all figures, and all claims.	1-20		
A	US 6574618 B2 (EYLON, D. et al.) 03 June 2003 See abstract, column 3 line 45 - column 5 line 18, column 5 line 45 - column 6 line 58, column line 4 - column 11 line 30, figures 1, 5, 6a, 6b, and cla ims 1 and 18.	1-20		
A	US 2007-0245409 A1 (HARRIS, J. et al.) 18 October 2007 See abstract and figure 2a.	1–20		

See patent family annex.

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Korean Intellectual Property Office Government Complex-Dacjeon, 189 Cheongsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea

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Hwang, Seung Hee

Telephone No. 82-42-481-5749



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WO 2007-121241 A2	25.10.2007	AU 2007-238099 A1 CA 2646414 A1 CN 101473628 A EP 2005712 A2 IL 19456700 JP 2009-536377 A JP 2009-536377 T KR 10-2008-0110894 A KR20080110894A W0 2007-121241 A3 W0 2007-121241 A3	25. 10. 2007 25. 10. 2007 01. 07. 2009 24. 12. 2008 03. 08. 2009 08. 10. 2009 19. 12. 2008 19. 12. 2008 13. 12. 2007 25. 10. 2007	
US 2007-0083610 A1	12.04.2007	None		
US 6574618 B2	03.06.2003	None		
US 2007-0245409 A1	18.10.2007	None		