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- (71) **Applicant (for all designated States except US):** MICROSOFT CORPORATION [US/US]; One Microsoft Way, Redmond, Washington 98052-6399 (US).
- (72) **Inventors:** DICKINSON, Richard L.; c/o Microsoft Corporation, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). MARTINEZ, Edward A.; c/o Microsoft Corporation, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). POUZIN, Dominic J.; c/o Microsoft Corporation, International Patents, One Microsoft Way,

Redmond, Washington 98052-6399 (US). GREWAL, Jasjit S.; c/o Microsoft Corporation, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). OTT, Michael J.; c/o Microsoft Corporation, International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US).

(74) **Agent:** MICROSORF CORPORATION; c/o Sharon Rydberg (8/2321, sharonr), One Microsoft Way, redmond, washington 98052-6399 (US).

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[Continued on next page]

(54) **Title:** TRANSFERABLE RESTRICTED SECURITY TOKENS

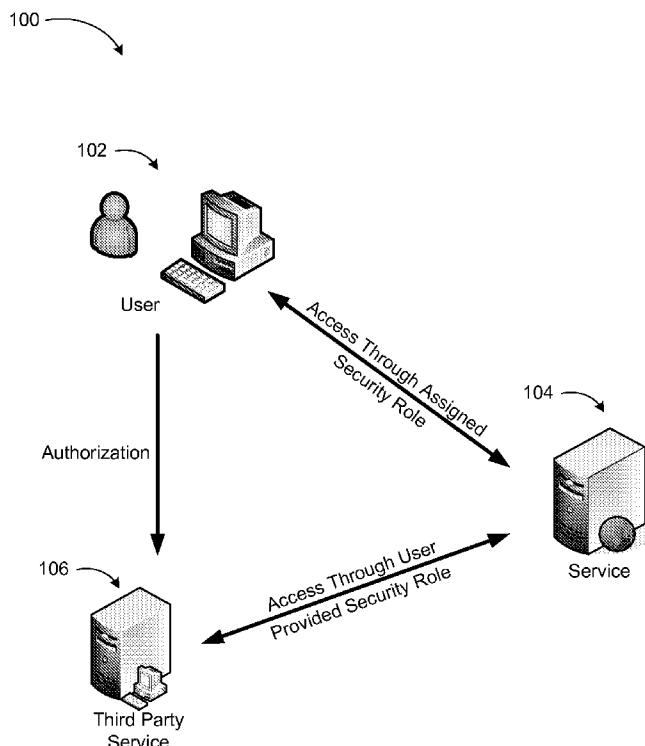


FIG. 1

(57) **Abstract:** In a web-based service environment, third party providers need to have varying degrees of access to user data for their complementary services. To prevent third party providers from having broader access than necessary or not adequate levels of access, transferable restricted security tickets are employed to determine an appropriate level of access for third parties. Tickets with expiration and restriction roles define a duration and level of access for a third party. The restrictions are determined through an intersection of the authorizing user's security role and restriction roles defined in the system.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

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A. CLASSIFICATION OF SUBJECT MATTER***H04L 9/32(2006.01)i***

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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eKIPASS (KIPO internal) & keywords : "secur*", "party, server", "message, packet", "CRM"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003-0163693 A1 (Alexander Medvinsky) 28 August 2003 See the abstract, paragraphs [0011], [0012], claims 1-4, figure 2 and corresponding specification.	1-20
A	US 7103663 B2 (Mitsuhiro Inoue et al.) 05 September 2006 See the abstract, column 1-2, column 6 lines 3-51, claims 1-3, 21, figure 1	1-20
A	JP 15330896 A (Nakano Katsuhiko et al.) 21 November 2003 See the abstract, claims 1-3, 10-14, figure 1 and corresponding specification.	1-20

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

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"&" document member of the same patent family

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Korean Intellectual Property Office
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Authorized officer

LEE, SANG MIN

Telephone No. 82-42-481-5734



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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2003-0163693 A1	28.08.2003	AU 2003-213295 A1 CA 2476542 A1 EP 1481524 A1 JP 2005-519533 A JP 2005-519533 T KR 10-2004-0099288 A	16.09.2003 12.09.2003 01.12.2004 30.06.2005 30.06.2005 26.11.2004
US 7103663 B2	05.09.2006	US 2003-0005135 A1	02.01.2003
JP 15330896 A	21.11.2003	AU 2003-231364 A1 CN 1545661 A EP 1505509 A1 KR 10-2005-0008626 A US 2004-0196981 A1	11.11.2003 10.11.2004 09.02.2005 21.01.2005 07.10.2004