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(71) Applicant (for all designated States except US): TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
[SE/SE]; S-164 83 Stockholm (SE).

(72) Inventor; and

(75) Inventor/Applicant (for US only): VOGT, Christian
[DE/FI]; Nelikkokuja 5 A 44, FIN-02230 Espoo (FI).

(74) Agent: SMITH, Steven, W.; Ericsson Inc., 6300 Legacy,
MS EVR 1-C-11, Plano, TX 75024 (US).

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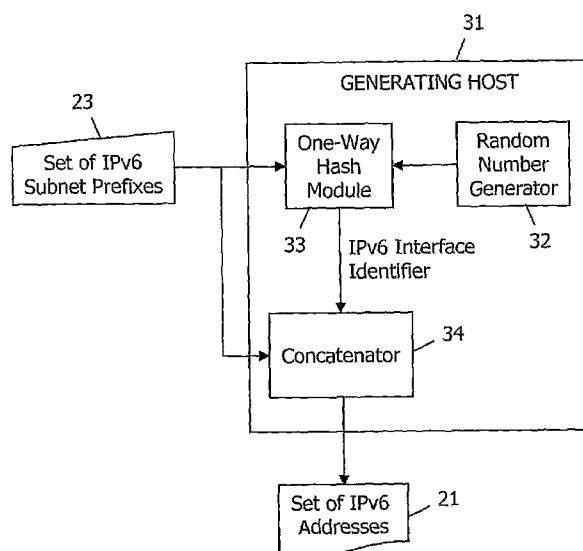


FIG. 3

(57) Abstract: A system and method for generating a set of IP addresses (21) for access multi-homing in an Internet access network. A generating host (31) obtains from the network a set of IPv6 subnet prefixes (23) for a plurality of available Internet Service Providers, ISPs. The generating host generates a single IPv6 interface identifier (22) from the subnet prefixes and cryptographically binds the subnet prefixes with the single IPv6 interface identifier. A remote peer (51) verifies that all of the IP addresses belong together by independently generating the IPv6 interface identifier from the same set of subnet prefixes and comparing the result with the IPv6 interface identifier generated by the generating host.

WO 2009/001183 A3

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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BAGNULO ET AL: "An incremental approach to IPv6 multihoming" COMPUTER COMMUNICATIONS, ELSEVIER SCIENCE PUBLISHERS BV, AMSTERDAM, NL, vol. 29, no. 5, 6 March 2006 (2006-03-06), pages 582-592, XP005330534 ISSN: 0140-3664 paragraph [04.2] paragraph [0006]	1-8, 11-14
X	BAGNULO M, GARCIA-MARTINEZ A; AZCORRA A: "Efficient security for IPv6 multihoming" ACM SIGCOMM COMPUTER COMMUNICATIONS REVIEW, vol. 35, no. 3, April 2005 (2005-04), pages 61-68, XP002506494 paragraph [0002] - paragraph [0003] ----- -/--	1-16

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Hes, Ronald

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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X	MARCELO BAGNULO ET AL: "BGP-like TE Capabilities for SHIM6" SOFTWARE ENGINEERING AND ADVANCED APPLICATIONS, 2006. SEAA '06. 3 2ND EUROMICRO CONFERENCE ON, IEEE, PI, 1 August 2006 (2006-08-01), pages 406-413, XP031016355 ISBN: 978-0-7695-2594-5 abstract paragraph [0001] paragraph [0004] - paragraph [05.1] -----	17-20
A	BAGNULO UC3M M: "Hash Based Addresses (HBA); draft-ietf-shim6-hba-03.txt" IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, CH, vol. shim6, no. 3, 1 June 2007 (2007-06-01), XP015051651 ISSN: 0000-0004 paragraph [0006] - paragraph [0007] -----	1-20