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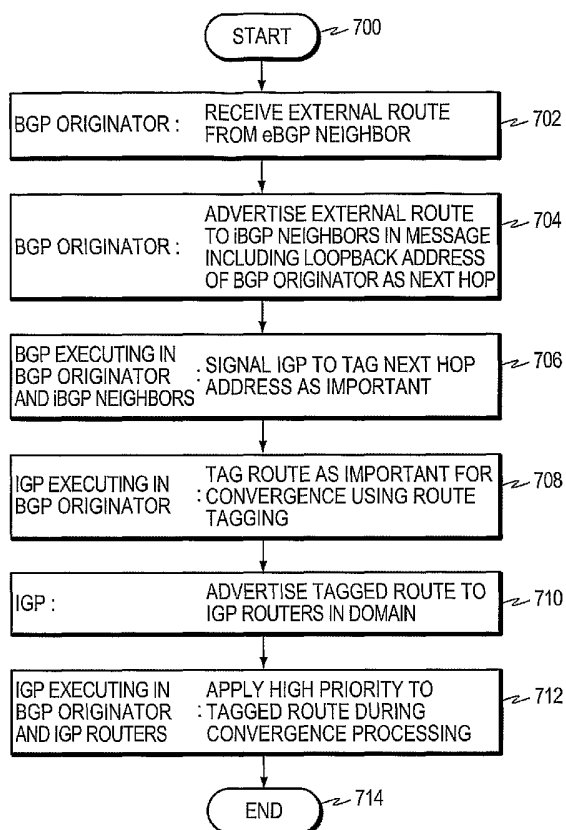
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(54) Title: AUTOMATIC ROUTE TAGGING OF BGP NEXT-HOP ROUTES IN IGP



(57) Abstract: A technique configures an intermediate network node to automatically determine whether a route advertised by a routing protocol is important for fast convergence in a computer network. As used herein, an important route needed for fast convergence is a route advertised by the routing protocol, such as an exterior gateway routing protocol (EGP) process executing on the node, as a next-hop address, since external connectivity relies on such a route. Notably, the EGP process interacts with an interior gateway routing protocol (IGP) process executing on the node to identify the route as an important route. Identification of an important route, in turn, allows IGP to process the route in a high priority fashion, thereby facilitating fast convergence.

WO 2006/071901 A3



FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT,
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PCT/US05/47150

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04L 12/28**(2006.01)

USPC: 370/351,401

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 370/351,400,401

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6,658,481 B1 (BASSO et al) 2 December 2003 (02.12.2003).	1-19
A	US 2003/0112809 A1 (BHARALI et al) 19 June 2003 (19.06.2003).	1-19
E,A	US 2006/0159076 A1 (BLESS et al) 20 July 2006 (20.07.2006).	1-19

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☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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