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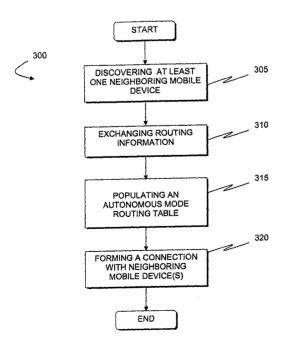
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(54) Title: AN AUTONOMOUS MODE FOR A PLURALITY OF NESTED MOBILE NETWORKS



(57) Abstract: A method for enabling autonomous mode routing between mobile devices in a plurality of nested mobile networks, the method including the steps of: discovering (305) at least one neighboring mobile device; exchanging (310) routing information with the at least one neighboring mobile device using a plurality of unicast messages; populating (315) an autonomous mode routing table (AMRT) using the routing information, wherein the AMRT includes an entry corresponding to each mobile network in the plurality of nested mobile networks; and forming (320) a connection with the at least one neighboring mobile device for enabling autonomous mode routing with the at least one neighboring mobile device.



FIG. 3

INTERNATIONAL SEARCH REPORT

International application No. PCT/US2006/016571

A.	CLASSIFICATION OF	SUBJECT MATTER		-
Int.	Cl. H04Q 7/ 24 (20	06.01)		
US	CI. <i>370/338</i>			
According to	International Patent Clas	sification (IPC) or to be	oth national classification and IPC	
В.	FIELDS SEARCHED			
Minimum docu H04Q 7/24	imentation searched (classif	fication system followed b	y classification symbols)	***************************************
Documentation	searched other than minim	um documentation to the	extent that such documents are included in the fields search	ned
	@CE, USPTO, IEEE &		of data base and, where practicable, search terms used) is, independent, router, nested, joined, network,	binding, update
C. DOCUMEN	NTS CONSIDERED TO BI	ERELEVANT		
Category*	Citation of document,	with indication, where	appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/073270 A 26 August 2004 (See for example the		LECTRIC INDUSTRIAL CO., LTD.)	1-20
Α	US 2003/0161287 A (See for example the	1-20		
A	US 2003/0087646 A (See for example the	.1 (FUNATO et al.) 8 e Abstract)	May 2003	1-20
F	urther documents are	listed in the continuat	ion of Box C X See patent family anne	ex
"A" documer not cons "E" earlier ap	categories of cited documents: and the general state of idered to be of particular relevely pplication or patent but published onal filing date	theart which is "T" ance	later document published after the international filing date or preconflict with the application but cited to understand the princip underlying the invention document of particular relevance; the claimed invention cannot or cannot be considered to involve an inventive step when the	le or theory be considered novel
"L" documer or which another	nt which may throw doubts on is cited to establish the public citation or other special reason	cation date of (as specified)	alone document of particular relevance; the claimed invention cannot involve an inventive step when the document is combined with such documents, such combination being obvious to a person st	be considered to one or more other
or other	nt referring to an oral disclosur means nt published prior to the intern than the priority date claimed	"&"	document member of the same patent family	
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Name and mail	ing address of the ISA/US		Authorized officer:	-
Mail Stop PCT.			Blaine R. Copenheaver	
	Alexandria, Virginia 2231	3-1450	Helpdesk: 571-272-4300 PCT OSP: 571-272-7774	

INTERNATIONAL SEARCH REPORT

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Information on patent family members

PCT/US2006/016571

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. These particulars are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member						
WO	2004/073270	CN	1706161	EP	1594264	JР	2004266819	
		US	2006/0155828					
US	2003/0161287	AU	2002353051	WO	2003/073777			
US	2003/0087646	JP .	2003188894					

END OF ANNEX