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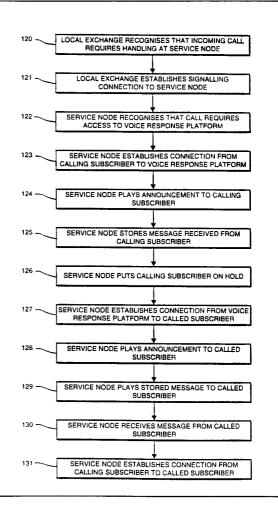
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#### (54) Title: SYSTEM FOR HANDLING TELEPHONE CALLS

#### (57) Abstract

A service node forms part of a network which allows service node calls to be managed, without requiring the calls themselves to be routed through the node. Thus, traffic in the network can be reduced, while allowing the provision of enhanced subscriber services. Exchanges within the network allow for the provision of transmission loops, under the control of software of the service node.



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## INTERNATIONAL SEARCH REPORT

Int. ational Application No PCT/EP 98/06383

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Minimum do IPC 6	ocumentation searched (classification system followed by classificat H04Q H04M	lion symbols)	
	ttion searched other than minimum documentation to the extent that		
Electronic d	data base consulted during the international search (name of data ba	ase and, where practical, s	search terms used)
	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No.
Х	EP 0 609 016 A (AT & T CORP) 3 A	ugust 1994	1-3,6,9, 12-16, 19,23
	see page 2, line 11 - line 24 see page 2, line 46 - page 3, line see page 5, line 25 - page 6, line see claims 1-10	ne 9	
Α	US 5 469 500 A (SATTER SOHAIL E 21 November 1995 see column 2, line 47 - line 60 see column 5, line 14 - line 67 see column 11, line 65 - column 27		1-29
А	US 5 600 710 A (WEISSER JR FRANK 4 February 1997 see claims 1-8	J ET AL)	1-29
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° Special cal	tegories of cited documents :	1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
conside	ent defining the general state of the art which is not lered to be of particular relevance document but published on or after the international	or priority date and n cited to understand t invention	shed after the international filing date not in conflict with the application but the principle or theory underlying the
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## INTERNATIONAL SEARCH REPORT

Int tional Application No PCT/EP 98/06383

.(Continuat	ion) DOCUMENTS CONSIDERED TO BE RELEVANT	PCI/EP 98/00383
	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
1	WO 96 13927 A (ERICSSON TELEFON AB L M) 9 May 1996 see the whole document	1-29

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Int tional Application No
PCT/EP 98/06383

US 5469500 A 21-11-1995 US 5600710 A 04-02-1997	US 5442689 A CA 2112060 A DE 69413078 D DE 69413078 T ES 2120566 T JP 6253018 A	15-08-1995 30-07-1994 15-10-1998 18-03-1999 01-11-1998 09-09-1994
	IIS 5572581 A	
US 5600710 A 04-02-1997	US 5703940 A US 5644631 A	05-11-1996 30-12-1997 01-07-1997
	NONE	
WO 9613927 A 09-05-1996	BR 9509442 A SE 9701566 A	23-12-1997 25-06-1997 24-03-1998