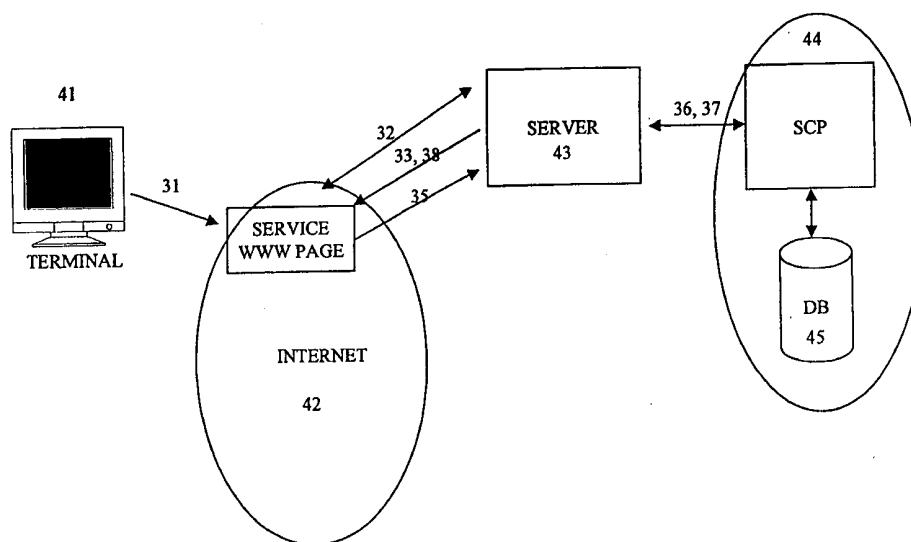




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : H04M 3/42, H04Q 7/38		A3	(11) International Publication Number: WO 00/13400
			(43) International Publication Date: 9 March 2000 (09.03.00)
(21) International Application Number: PCT/FI99/00700 (22) International Filing Date: 25 August 1999 (25.08.99) (30) Priority Data: 981832 26 August 1998 (26.08.98) FI (71) Applicant (for all designated States except US): HELSINGIN PUHELIN OYJ – HELSINGFORS TELEFON ABP [FI/FI]; Korkeavuorenkatu 35 – 37, FIN-00130 Helsinki (FI). (72) Inventors; and (75) Inventors/Applicants (for US only): HYNNINEN, Ari [FI/FI]; Vahtirinne 6 A 4, FIN-00370 Helsinki (FI). JAUHIAINEN, Juha-Pekka [FI/FI]; Vanhanlinnankuja 1 B 42, FIN-00900 Helsinki (FI). (74) Agent: SEPPO LAINE OY; Itämerenkatu 3 B, FIN-00180 Helsinki (FI).		(81) Designated States: NO, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>In English translation (filed in Finnish).</i> (88) Date of publication of the international search report: 2 June 2000 (02.06.00)	

(54) Title: METHOD FOR IMPLEMENTING AN ACCESSIBILITY SERVICE AND FOR UPDATING A ROUTING LIST



(57) Abstract

The present invention concerns a method related to a number routing service in which at least one routing list is provided with facilities allowing the client to perform a self-contained update of the list via a suitable user interface. In the context of the present invention, such a reconfigurable routing list is called a multi-link. In addition to the multi-link, the number routing service may use conventional routing lists herein denoted as basic routing lists and a basic answering number location denoting a direct number rerouting to a single answering location. In the embodiments of the invention, the answering locations of the multi-link can be reconfigured using a DTMF telephone or a WWW user interface. According to the invention, the WWW user interface may also be used for changing the definitions of the basic routing lists.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AL	Albania	ES	Spain	LS	Lesotho	SI	Slovenia
AM	Armenia	FI	Finland	LT	Lithuania	SK	Slovakia
AT	Austria	FR	France	LU	Luxembourg	SN	Senegal
AU	Australia	GA	Gabon	LV	Latvia	SZ	Swaziland
AZ	Azerbaijan	GB	United Kingdom	MC	Monaco	TD	Chad
BA	Bosnia and Herzegovina	GE	Georgia	MD	Republic of Moldova	TG	Togo
BB	Barbados	GH	Ghana	MG	Madagascar	TJ	Tajikistan
BE	Belgium	GN	Guinea	MK	The former Yugoslav	TM	Turkmenistan
BF	Burkina Faso	GR	Greece		Republic of Macedonia	TR	Turkey
BG	Bulgaria	HU	Hungary	ML	Mali	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MN	Mongolia	UA	Ukraine
BR	Brazil	IL	Israel	MR	Mauritania	UG	Uganda
BY	Belarus	IS	Iceland	MW	Malawi	US	United States of America
CA	Canada	IT	Italy	MX	Mexico	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NE	Niger	VN	Viet Nam
CG	Congo	KE	Kenya	NL	Netherlands	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NO	Norway	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's	NZ	New Zealand		
CM	Cameroon		Republic of Korea	PL	Poland		
CN	China	KR	Republic of Korea	PT	Portugal		
CU	Cuba	KZ	Kazakstan	RO	Romania		
CZ	Czech Republic	LC	Saint Lucia	RU	Russian Federation		
DE	Germany	LI	Liechtenstein	SD	Sudan		
DK	Denmark	LK	Sri Lanka	SE	Sweden		
EE	Estonia	LR	Liberia	SG	Singapore		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/00700

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: H04M 3/42, H04Q 7/38

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)

IPC7: H04M, H04Q

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

SE,DK,FI,NO classes as above

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.
X	US 5384831 A (CARROLL W. CRESWELL ET AL), 24 January 1995 (24.01.95), column 3, line 47 - column 4, line 35; column 9, line 38 - line 49, abstract --	1-9
X	US 5347574 A (SANFORD J. MORGANSTEIN), 13 Sept 1994 (13.09.94), column 2, line 20 - line 41, abstract --	1-9
X	WO 9821911 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 22 May 1998 (22.05.98), page 2 - page 3, abstract --	1-9

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

23 February 2000

Date of mailing of the international search report

28-02-2000

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Benny Andersson/cs

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 99/00700

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5592533 A (JAMES F. MCHENRY ET AL), 7 January 1997 (07.01.97), column 9, line 1 - line 21; column 9, line 42 - line 50, abstract --	1-9
X	US 5592541 A (HAROLD C. FLEISCHER, III ET AL), 7 January 1997 (07.01.97), see the whole document --	1-9
A	WO 97344001 A1 (XANTEL CORPORATION), 18 Sept 1997 (18.09.97) --	1-9
A	US 5526414 A (FRANCOIS BEDARD ET AL), 11 June 1996 (11.06.96) --	1-9
A	US 5408528 A (DAVID G. CARLSON ET AL), 18 April 1995 (18.04.95) --	1-9
A	US 5448627 A (HIROATSU UENO ET AL), 5 Sept 1995 (05.09.95) -- -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

02/12/99

International application No.

PCT/FI 99/00700

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5384831 A	24/01/95	US 5544229 A AU 645921 B AU 2204292 A CA 2073997 A,C DE 69228032 D,T EP 0531048 A,B SE 0531048 T3 JP 7023111 A MX 9205001 A US 5222125 A	06/08/96 27/01/94 11/03/93 04/03/93 15/07/99 10/03/93 24/01/95 01/04/93 22/06/93
US 5347574 A	13/09/94	US 5724408 A US 5029196 A US 5109405 A	03/03/98 02/07/91 28/04/92
WO 9821911 A1	22/05/98	AU 5075698 A	03/06/98
US 5592533 A	07/01/97	US 5610969 A	11/03/97
US 5592541 A	07/01/97	NONE	
WO 97344001 A1	18/09/97	NONE	
US 5526414 A	11/06/96	CA 2203534 A EP 0789974 A JP 11506571 T WO 9613945 A	09/05/96 20/08/97 08/06/99 09/05/96
US 5408528 A	18/04/95	CA 2058814 A,C CZ 9301744 A DE 69214978 D,T EP 0501903 A,B HU 216210 B JP 2520537 B JP 5063766 A RU 2099895 C SK 90893 A WO 9216067 A	28/08/92 16/02/94 07/05/97 02/09/92 28/05/99 31/07/96 12/03/93 20/12/97 12/01/94 17/09/92
US 5448627 A	05/09/95	JP 5176050 A US 5289528 A	13/07/93 22/02/94