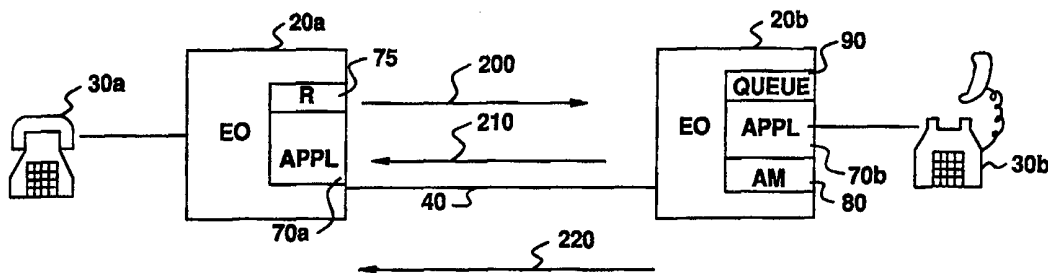




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<p>(51) International Patent Classification ⁶ : H04M 3/48, 3/42, 3/00</p>	<p>A3</p>	<p>(11) International Publication Number: WO 97/45990 (43) International Publication Date: 4 December 1997 (04.12.97)</p>
<p>(21) International Application Number: PCT/US97/09118 (22) International Filing Date: 29 May 1997 (29.05.97) (30) Priority Data: 08/657,973 30 May 1996 (30.05.96) US (71) Applicant: ERICSSON INC. [US/US]; 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC 27709 (US). (72) Inventor: REICHELDT, Martin; 300 Legacy Drive #2036, Plano, TX 73023 (US). (74) Agents: MOORE, Stanley, R. et al.; Jenkins & Gilchrist, P.C., Suite 3200, 1445 Ross Avenue, Dallas, TX 75202 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ARIPO patent (GH, KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 25 June 1998 (25.06.98)</p>

(54) Title: HOLDING PARTY CALL BACK SUBSCRIBER FEATURE



(57) Abstract

A first subscriber (30a) activates a hold call back subscriber feature in response to a second subscriber (30b) placing the first subscriber on call hold. After the activation, the first subscriber goes onhook. When the second subscriber later wishes to take the first subscriber off of call hold, a first end office (20a) serving the first subscriber recognizes the second subscriber's action and accordingly alerts the first subscriber back. Upon answering the ring back, a call connection is re-established between the first subscriber and the second subscriber. A connection-less signal is communicated between the first end office and a second end office (20b) serving the second subscriber to queue, monitor, and inform the second subscriber's action. Upon receiving a connection-less signal from the second office indicating that the second subscriber wishes to take the first subscriber off of call hold, the first end office originates another call setup request towards the second subscriber.

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 Republic of Macedonia	TM	Turkmenistan
BF	Burkina Faso	GR	Greece	ML	Mali	TR	Turkey
BG	Bulgaria	HU	Hungary	MN	Mongolia	TT	Trinidad and Tobago
BJ	Benin	IE	Ireland	MR	Mauritania	UA	Ukraine
BR	Brazil	IL	Israel	MW	Malawi	UG	Uganda
BY	Belarus	IS	Iceland	MX	Mexico	US	United States of America
CA	Canada	IT	Italy	NE	Niger	UZ	Uzbekistan
CF	Central African Republic	JP	Japan	NL	Netherlands	VN	Viet Nam
CG	Congo	KE	Kenya	NO	Norway	YU	Yugoslavia
CH	Switzerland	KG	Kyrgyzstan	NZ	New Zealand	ZW	Zimbabwe
CI	Côte d'Ivoire	KP	Democratic People's Republic of Korea	PL	Poland		
CM	Cameroon	KR	Republic of Korea	PT	Portugal		
CN	China	KZ	Kazakstan	RO	Romania		
CU	Cuba	LC	Saint Lucia	RU	Russian Federation		
CZ	Czech Republic	LI	Liechtenstein	SD	Sudan		
DE	Germany	LK	Sri Lanka	SE	Sweden		
DK	Denmark	LR	Liberia	SG	Singapore		
EE	Estonia						

INTERNATIONAL SEARCH REPORT

national Application No
PCT/US 97/09118

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 H04M3/48 H04M3/42 H04M3/00

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)
 IPC 6 H04M

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 practical, 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 5 436 967 A (HANSON THOMAS C) 25 July 1995 see column 2, line 19 - line 55	1-5, 8-12, 17, 18
X	PATENT ABSTRACTS OF JAPAN vol. 010, no. 376 (E-464), 13 December 1986 & JP 61 167258 A (SANYO ELECTRIC CO LTD), 28 July 1986, see abstract	1-3, 11, 12, 17, 18
X	WO 95 17790 A (GTE LABORATORIES INC) 29 June 1995 see page 1, line 22 - page 2, line 12	1-3, 11, 12, 17, 18
A	US 4 834 551 A (KATZ JAMES E) 30 May 1989	

Further documents are listed in the continuation of box C. Patent family members are listed in annex.

° Special categories of cited documents :

<p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"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)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p>	<p>"T" 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</p> <p>"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</p> <p>"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.</p> <p>"&" document member of the same patent family</p>
--	--

Date of the actual completion of the international search 6 May 1998	Date of mailing of the international search report 13/05/1998
--	---

Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Vandevenne, M
--	--

INTERNATIONAL SEARCH REPORT

Information on patent family members

national Application No

PCT/US 97/09118

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5436967 A	25-07-95	NONE	
WO 9517790 A	29-06-95	US 5668861 A BR 9408492 A CA 2179495 A CN 1138398 A	16-09-97 26-08-97 29-06-95 18-12-96
US 4834551 A	30-05-89	NONE	