(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 January 2008 (03.01.2008)

(10) International Publication Number WO 2008/002587 A3

(51) International Patent Classification:

H04L 9/00 (2006.01) **G10L 11/00** (2006.01) **H04M 1/64** (2006.01) **G10L 21/00** (2006.01)

(21) International Application Number:

PCT/US2007/014853

(22) International Filing Date: 27 June 2007 (27.06.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

11/477,899 28 June 2006 (28.06.2006) US

(71) Applicant (for all designated States except US): HYPER-QUALITY, INC. [US/US]; 1118 Post Avenue, 2nd Floor, Seattle, WA 98101 (US).

(72) Inventor: DOREN, G., Kevin; 8202 Avalon Drive, Mercer Island, WA 98040 (US).

(74) Agent: PELOQUIN, Mark; Peloquin, PLLC, 800 Fifth Avenue, Suite 4100, Seattle, WA 98104 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

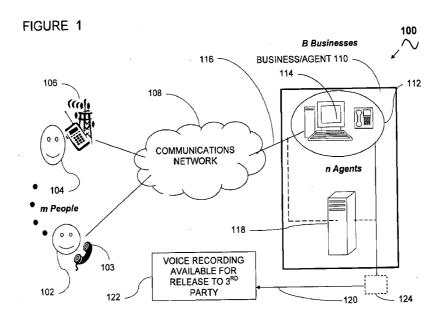
Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report
- (88) Date of publication of the international search report:
 4 December 2008

(54) Title: SELECTIVE SECURITY MASKING WITHIN RECORDED SPEECH



(57) Abstract: A marker is derived from an interaction between a person and an agent of a business and the agent's user interface. A part of a speech signal that corresponds to a portion of the person's special information is located with the marker. The speech signal results from the interaction between the person and the agent. The part of the speech signal that corresponds to the portion of the person's special information is rendered unintelligible.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/14853

A CLAS	SSIFICATION OF SUBJECT MATTER			
A. CLAS	H04L 9/00(2006.01);H04M 1/64(2006.01);G10L	11/00/ 200	06 01) 21/00 / 2006 01)	
n c.	11042 5/00(2000.01),1104/11 1/04(2000.01),0102	11/00(200	0.01),21/00(2000.01)	
USPC:	726/26;713/189;705/51;704/273;379/85,88.04,88.13	8		
According to	International Patent Classification (IPC) or to both nat		fication and IPC	
				•
B. FIELI	DS SEARCHED			
Minimum do	cumentation searched (classification system followed b	v classifica	tion symbols)	· · · · · · · · · · · · · · · · · · ·
	26/26; 713/189; 705/51; 704/273; 379/85,88.04,88.18	y classifica	inon symbols)	
0.5 72				
				
Documentation	on searched other than minimum documentation to the	extent that	such documents are include	led in the fields searched
Electronic da	ta base consulted during the international search (name	of data bas	se and, where practicable,	search terms used)
	· ·		•	•
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT	**-		
Category *	Citation of document, with indication, where a	nnmnriate	of the relevant passages	Relevant to claim No.
X	US 6,519,699 B2 (LU et al.) 11 February 2003 (11.0) 3, line 7; Fig. 1; Fig. 2, element 225	2.2003), AI	ostract; coi. 2, line 62 to co	ol. 1-13, 72-90
	3, line 7; Fig. 1; Fig. 2, element 223			•
				ł
				ļ
				İ
•				{
				}
				Į.
	<u>.</u>			<u> </u>
	,		<i>;</i>]
	L			
Further	documents are listed in the continuation of Box C.		See patent family annex.	
		<u> </u>		in a single of the single of t
• s	pecial categories of cited documents:	"Ţ"		ne international filing date or priority application but cited to understand the
	t defining the general state of the art which is not considered to be of		principle or theory underlying th	e invention
particular	relevance	"X"	document of particular relevance	e; the claimed invention cannot be
"E" earlier ap	plication or patent published on or after the international filing date		considered novel or cannot be co	onsidered to involve an inventive step
"L" document	t which may throw doubts on priority claim(s) or which is cited to		when the document is taken alon	e .
	the publication date of another citation or other special reason (as	"Y"		e; the claimed invention cannot be
specified))		with one or more other such doc	we step when the document is combined uments, such combination being
"O" document	t referring to an oral disclosure, use, exhibition or other means	+	obvious to a person skilled in the	
"P" document	t published prior to the international filing date but later than the	"&" [·]	document member of the same p	atent family
priority date claimed				
Date of the actual completion of the international search Date of mailing of the international search report			search report	
·			11 SEP 2008	•
01 September 2008 (01.09.2008) Name and mailing address of the ISA/US Au			ed officer	
	il Stop PCT, Attn: ISA/US			Joan Proctor
Commissioner for Patents		MINH DIEU NGUYEN Telephone No. 571-272-2100 Telephone No. 571-272-2100		
P.O. Box 1450		Telephon	e No. 571-272-2100	Paralegal Spendilist
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201				-
- acommic 190	. (01.) 210 020.	I		

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/14853

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No.	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-13 and 72-90			
Remark	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. No protest accompanied the payment of additional search fees.			

INTERNATIONAL SEARCH REPORT	International application No. PCT/US07/14853
	<u> </u>
	. •
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate the second of the concept under PCT Rule 13.1.	not so linked as to form a single general inventive
Group 1, claim(s) 1-13 and 72-90, drawn to method and system to protect a person's special information is contained within the speech signal.	special information by determining if the person's
Group 2, claim(s) 14-25, 37-53 and 58-65, drawn to method and system to protect a that corresponds to an activity and utilizing the activity to associate an identifier with	
Group 3, claim(s) 26-36, 54-57, 66-71 and 91-103, drawn to method and system to pactivity in an area of a user interface with a speech signal.	protect a person's special information by correlating an
The inventions listed as Groups 1, 2 and 3 do not relate to a single general inventive Rule 13.2, they lack the same or corresponding special technical features for the folloperson's special information is contained within the speech signal. Group 2 relates to utilizing the activity to associate an identifier with a speech signal which is not prese activity in an area of a user interface with a speech signal to identify a part of the spe information.	owing reasons: group1 relates to determining if the odetermining a time that corresponds to an activity and ont in group 1 or 3. Group 3 relates to correlating an