



- (51) International Patent Classification:
G06F 15/16 (2006.01)
- (21) International Application Number:
PCT/US2013/051566
- (22) International Filing Date:
23 July 2013 (23.07.2013)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
13/556,149 23 July 2012 (23.07.2012) US
- (71) Applicant: **GOOGLE INC.** [US/US]; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US).
- (72) Inventors: **HAUGEN, Frances Bordwell**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US). **MARRA, Gregory Matthew**; 1600 Amphitheatre Parkway, Mountain View, California 94043 (US).
- (74) Agents: **WHITTENBERGER, Mark H.** et al.; HOLLAND & KNIGHT LLP, 10 St. James Avenue, Boston, Massachusetts 02116 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, 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, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, 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 (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) Date of publication of the international search report:
3 April 2014

(54) Title: SYSTEM AND METHOD FOR PROVIDING MULTI-MODAL ASYNCHRONOUS COMMUNICATION

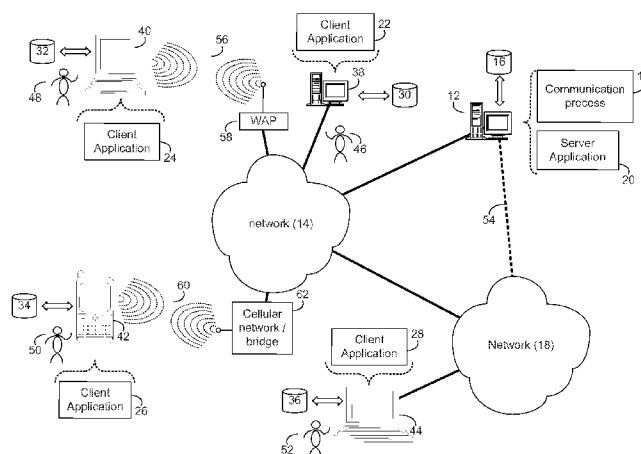


FIG. 1

(57) Abstract: Embodiments include receiving a first synchronous communication message in a first modality from a first user device. The method may further include generating a first asynchronous communication message in a second modality, based at least in part on the first synchronous communication message in the first modality, wherein the first modality differs from the second modality. The method may also include receiving a second asynchronous communication message in the second modality from a second user device. The method may further include generating a second asynchronous communication message in the first modality based at least in part on the second synchronous communication message in the second modality. The method may also include providing for display to the first user device, the second asynchronous message in the first modality. The method may further include providing for display to the second user device, the first asynchronous message in the second modality.



INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 13/51566

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - G06F 15/16 (2013.01)

USPC - 709/204

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)

USPC: 709/204; IPC(8): G06F 15/16 (2013.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC: 379/88.13, 379/88.22, 379/202.01; 704/270.1; 709/228, 709/229, 709/217; 715/753 (keyword limited; terms below)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PatBase; Google Scholar

Search Terms: synchronous, asynchronous, communicate, message, chat, transmit, user device, mode, modality, multimode, multimodal, display, session, video, audio, text, convert, transform, reform, output, store, web, Internet, online, avatar

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/0028380 A1 (FREELAND et al.) 06 February 2003 (06.02.2003), abstract and para [0041]-[0046], [0062], [0122], [0137], [0185], [0213]-[0215], [0242]-[0243], [0250], [0252], [0254]-[0256], [0258], [0316]-[0318].	1-25
A	US 2011/0276901 A1 (ZAMBETTI et al.) 10 November 2011 (10.11.2011), entire document.	1-25
A	US 2009/0319918 A1 (AFFRONTI et al.) 24 December 2009 (24.12.2009), entire document.	1-25
A	US 6,912,581 B2 (JOHNSON et al.) 28 June 2005 (28.06.2005), entire document.	1-25
A	US 2011/0276903 A1 (MEHIN et al.) 10 November 2011 (10.11.2011), entire document.	1-25
A	US 2011/0276904 A1 (MEHIN et al.) 10 November 2011 (10.11.2011), entire document.	1-25
A	US 2009/0034700 A1 (BRUNSON et al.) 05 February 2009 (05.02.2009), entire document.	1-25
A	US 2009/0061825 A1 (NEELAKANTAN et al.) 05 March 2009 (05.03.2009), entire document.	1-25
A	US 2007/0083656 A1 (BOBO) 12 April 2007 (12.04.2007), entire document.	1-25
A	US 7,822,191 B2 (MCKINZIE et al.) 26 October 2010 (26.10.2010), entire document.	1-25
A	US 2011/0276898 A1 (VAN DER FLIER et al.) 10 November 2011 (10.11.2011), entire document.	1-25

Further documents are listed in the continuation of Box C.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent but published on or after the international filing date	"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
"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)	"&" document member of the same patent family
"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	

Date of the actual completion of the international search 08 January 2014 (08.01.2014)	Date of mailing of the international search report 07 FEB 2014
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 13/51566

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A,P	US 2012/0237009 A1 (SZPILFOGEL) 20 September 2012 (20.09.2012), entire document.	1-25