(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
20 March 2014 (20.03.2014)

WIPO | PCT

(10) International Publication Number
WO 2014/042767 A3

(51) International Patent Classification:
G06F 17/00 (2006.01)

(21) International Application Number:
PCT/US2013/051946

(22) International Filing Date:
25 July 2013 (25.07.2013)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
13/611,406 12 September 2012 (12.09.2012) US
13/611,825 12 September 2012 (12.09.2012) US

(71) Applicant: **INTERNATIONAL BUSINESS MACHINES CORPORATION** [US/US]; One Orchard Road, Armonk, NY 10504 (US).

(72) Inventors: **KANEVSKY, Dimitri**; IBM T.J. Watson Research Center, Route 134, Yorktown Heights, NY 10598 (US). **KOZLOSKI, James, R.**; IBM T.J. Watson Research Center, Route 134, Yorktown Heights, NY 10598 (US). **PICKOVER, Clifford, A.**; IBM T.J. Watson Research Center, Route 134, Yorktown Heights, NY 10598 (US). **SAINATH, Tara, N.**; IBM T.J. Watson Research Center, Route 134, Yorktown Heights, NY 10598 (US).

(74) Agent: **COOPER, Michael, J.**; Ryan, Mason & Lewis, LLP, 1300 Post Road, Suite 205, Fairfield, CT 06824 (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).

Published:

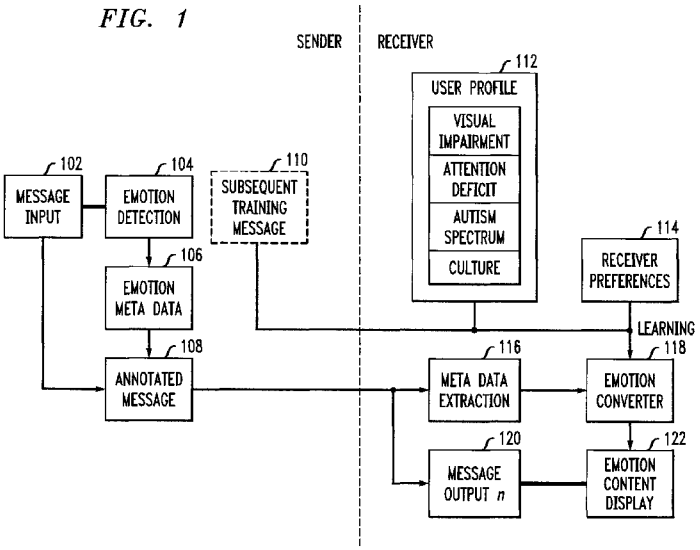
— *with international search report (Art. 21(3))*

— *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:
5 June 2014

(54) Title: ELECTRONIC COMMUNICATION WARNING AND MODIFICATION

FIG. 1



(57) Abstract: Techniques for electronic communication warning and modification. A method includes automatically detecting an emotional state of a sender of an electronic communication, encoding the detected emotional state of the sender, using input from at least one additional source, as metadata, embedding the metadata in the electronic communication to create an annotated version of the electronic communication, and transmitting the annotated version of the electronic communication to a recipient.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06F 17/00 (2014.01)
USPC - 715/230
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(8): G06F 3/00, 3/048, 17/00, 17/21, 17/21 (2014.01)
USPC: 715/230, 231, 233, 700, 853

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 practicable, search terms used)
MicroPatent (US-G, US-A, EP-A, EP-B, WO, JP-bib, DE-C,B, DE-A, DE-T, DE-U, GB-A, FR-A); ProQuest; IEEE; Google/Google Scholar; transmitting*, electronic*, communication*, annotated*, emotional*, state*, detected*, sender*, metadata*, embedding*, version*, computer*, device*

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2010/0223581 A1 (MANOLESCU, D. et al.) 02 September 2010, Figures 3, 5, Abstract, Paragraph [0022]-[0028], [0034]-[0036], [0046]-[0048], [0058], [0064], [0069], [0071].	1-19, 21-24
A	US 8,209,385 B2 (PARTAKER, E et al.) 26 June 2012; the entire document..	1-19, 21-24
A	US 8239774 B2 (GANDHI, S et al.) 07 August 2012; the entire document.	1-19, 21-24
A	US 2009/0002178 A1 (GUDAY, S et al.) 01 January 2009; the entire document.	1-19, 21-24

☐ Further documents are listed in the continuation of Box C. ☐

* 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 application or patent 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
"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
"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	Date of mailing of the international search report
07 March 2014 (07.03.2014)	09 APR 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: Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (July 2009)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US13/51946

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. III 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:
Group I: Claims 1-19 and 21-24; Group II: Claims 20 and 25

-***-Please see Supplemental Page-***-

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.

3. ☐ 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.:
1-19 and 21-24

Remark on Protest

☐ 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/US13/51946

-***-Continued from Box No. III - Observations where unity of invention is lacking-***-

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fee must be paid.

Group I: Claims 1-19 and 21-24 are directed toward a method for transmitting an electronic communication based on a detected emotional state of a sender.

Group II: Claims 20 and 25 are directed toward a method for managing transmission of an electronic communication based on an emotional state of a sender.

The inventions listed as Groups I-II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical features of Group I include encoding the detected emotional state of the sender using input from at least one additional source, as metadata; and embedding the metadata in the electronic communication to create an annotated version of the electronic signature, which are not present in Group II.

The special technical features of Group II include providing the author with a notification of the detected emotional state; delaying transmission of the electronic communication to a recipient by a predetermined amount of time; and deploying an action to facilitate modification and/or cancellation of the transmission of the electronic communication during said delay, which are not present in Group I.

The common technical feature shared by Groups I-II is a method for transmitting an electronic communication based on a detected emotional state of a sender of the electronic communication, the method comprising: automatically detecting an emotional state of a sender of an electronic communication; transmitting the electronic communication to a recipient; and wherein at least one of the steps is carried out by a computer device. However, this common feature is previously disclosed by US 7,289,949 B2 (Warner). Warner discloses a method for transmitting an electronic communication based on a detected emotional state of a sender of the electronic communication (determining the emotional content of an electronic correspondence from a customer (sender); Abstract), the method comprising: automatically detecting an emotional state of a sender of an electronic communication (emotionally charged words are detected and given an emotional ranking; Abstract); transmitting the electronic communication to a recipient (router information to a company (recipient; Abstract); and wherein at least one of the steps is carried out by a computer device (customer computer 100; Figure 1).

Since the common technical feature is previously disclosed by the Warner reference, this common feature is not special and so Groups I-II lack unity.