



US008554859B2

(12) **United States Patent**
Klassen et al.

(10) **Patent No.:** **US 8,554,859 B2**
(45) **Date of Patent:** ***Oct. 8, 2013**

(54) **HANDHELD ELECTRONIC DEVICE AND ASSOCIATED METHOD PROVIDING TIME DATA IN A MESSAGING ENVIRONMENT**

(75) Inventors: **Gerhard D. Klassen**, Waterloo (CA); **Christopher R. Wormald**, Kitchener (CA); **Lawrence E. Kuhl**, Waterloo (CA)

(73) Assignee: **BlackBerry Limited**, Waterloo (CA)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/615,431**

(22) Filed: **Sep. 13, 2012**

(65) **Prior Publication Data**

US 2013/0007174 A1 Jan. 3, 2013

Related U.S. Application Data

(63) Continuation of application No. 13/111,675, filed on May 19, 2011, now Pat. No. 8,301,713, which is a continuation of application No. 10/944,925, filed on Sep. 20, 2004, now Pat. No. 7,970,849.

(60) Provisional application No. 60/504,379, filed on Sep. 19, 2003.

(51) **Int. Cl.**
G06F 15/16 (2006.01)

(52) **U.S. Cl.**
USPC **709/206**; 709/204; 709/207; 455/566; 455/567; 715/772

(58) **Field of Classification Search**
USPC 709/206, 207, 204; 455/566, 567; 715/772

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,301,609 B1 10/2001 Aravamudan et al.
6,484,196 B1 11/2002 Maurille
6,590,529 B2 7/2003 Schwoegler et al.
6,603,389 B1* 8/2003 Murray 340/7.2
6,636,243 B1 10/2003 MacPhail
6,889,063 B2* 5/2005 Yamada 455/567

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2475319 A1 8/2003
EP 0743762 A2 11/1996

(Continued)

OTHER PUBLICATIONS

Lastoria, Gianluca; Search Report from corresponding European Application No. 10172832.7; search completed Oct. 1, 2010.
Varma, S.; Search Report from corresponding PCT Application No. PCT/CA2004/001712; search completed Dec. 1, 2004.

Primary Examiner — Ario Etienne

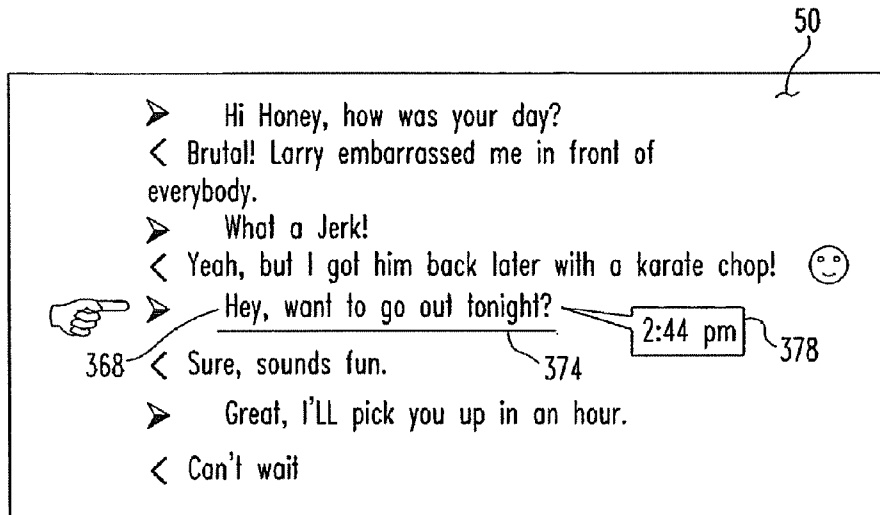
Assistant Examiner — Michael C Lai

(74) *Attorney, Agent, or Firm* — Brett J. Slaney; Blake, Cassels & Graydon LLP

(57) **ABSTRACT**

An improved handheld electronic device and an associated method are provided in which time data regarding certain aspects of a messaging conversation on a handheld electronic device are made available to a user. Such time data is provided, for instance, in situations where an interruption has occurred during a messaging conversation. Time data can also be provided to a user on demand in certain circumstances.

15 Claims, 7 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

7,043,530 B2 5/2006 Isaacs et al.
7,099,700 B2* 8/2006 Hwang et al. 455/566
7,111,044 B2* 9/2006 Lee 709/204
7,181,497 B1* 2/2007 Appelman et al. 709/206
7,236,472 B2 6/2007 Lazaridis et al.
7,305,441 B2* 12/2007 Mathewson et al. 709/206
2002/0075303 A1 6/2002 Thompson et al.
2002/0087649 A1 7/2002 Horvitz
2003/0001890 A1* 1/2003 Brin 345/753
2003/0060240 A1 3/2003 Graham et al.
2003/0104841 A1 6/2003 Yamamoto
2003/0134616 A1 7/2003 Thomsen et al.

2004/0137967 A1 7/2004 Bodley et al.
2004/0205775 A1* 10/2004 Heikes et al. 719/318
2004/0228531 A1 11/2004 Fernandez et al.
2005/0080866 A1* 4/2005 Kent et al. 709/207

FOREIGN PATENT DOCUMENTS

EP 1176840 A1 1/2002
GB 2350746 A * 12/2000
GB 2384150 A 7/2003
JP 200311145 A 12/1990
WO WO 01/30091 A1 4/2001
WO WO 02/21413 A2 3/2002
WO WO 02/065250 A2 8/2002
WO WO 2004/064362 A1 7/2004

* cited by examiner

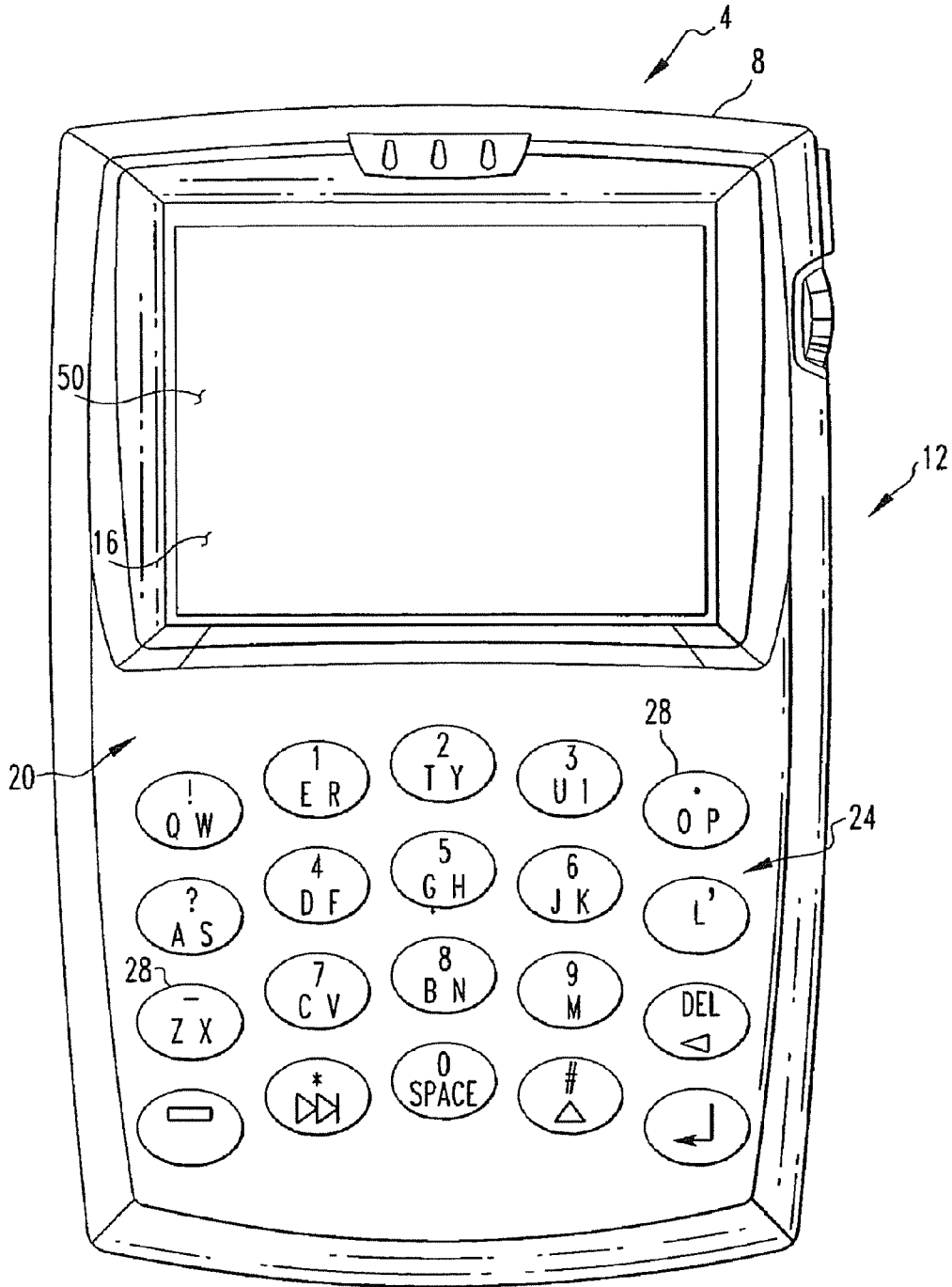


FIG. 1

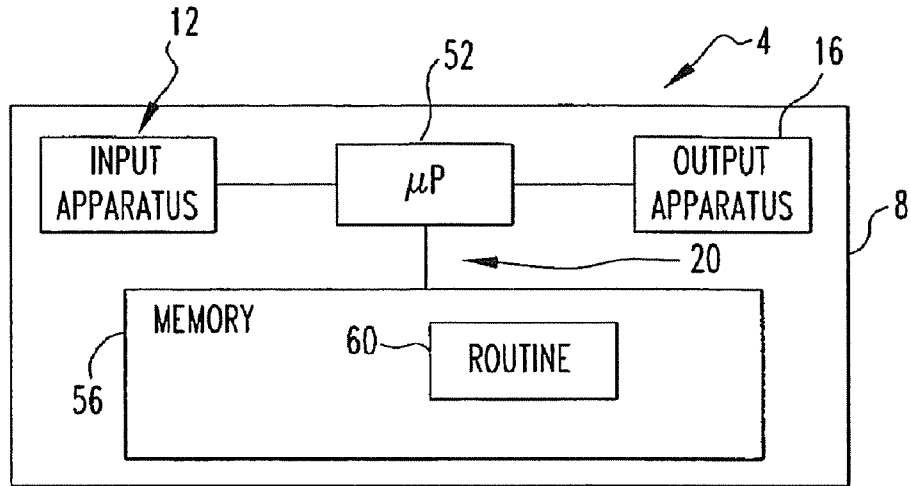


FIG. 2

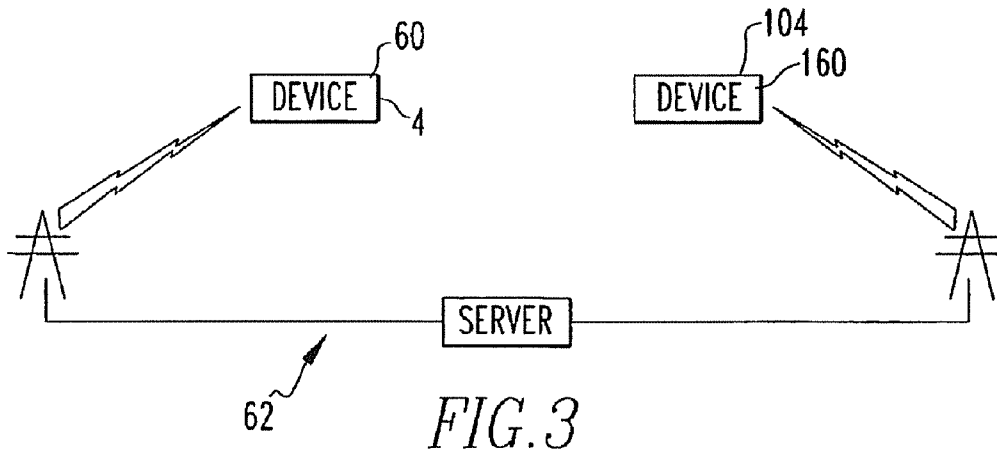


FIG. 3

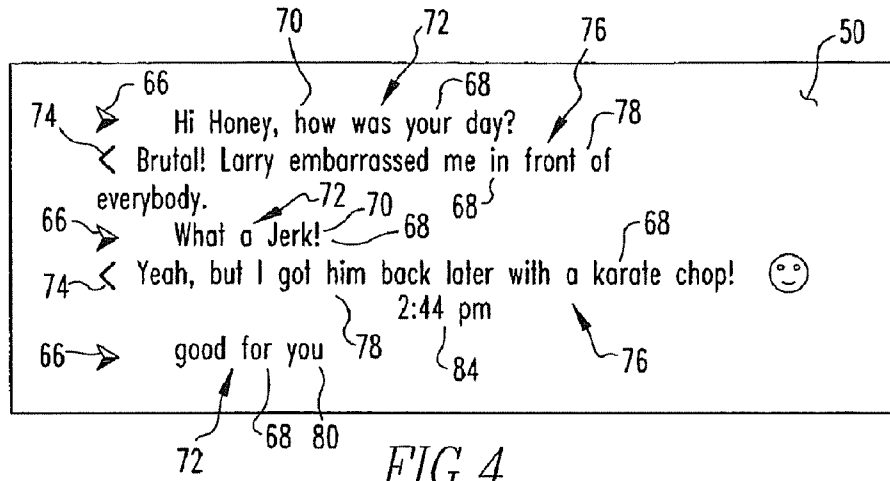


FIG. 4

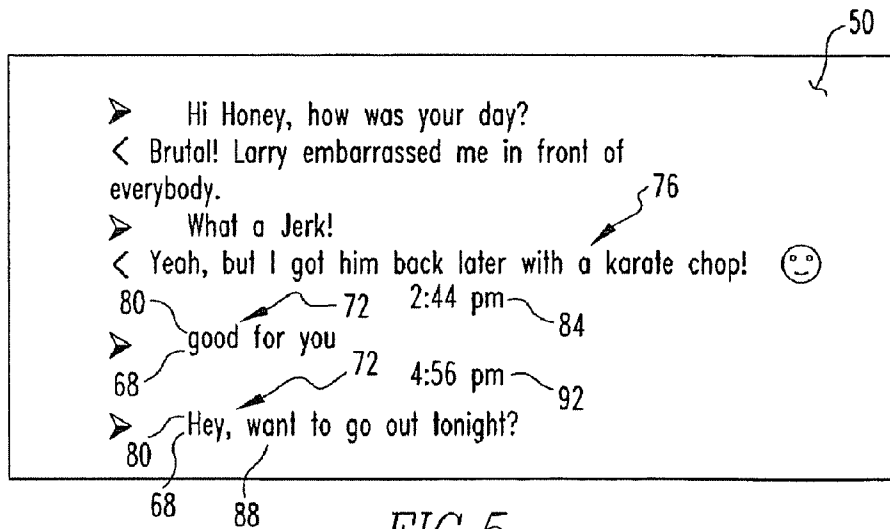


FIG. 5

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.