APPENDIX 6

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May 08, 2012

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APPLICATION NUMBER: *10/211,614*
FILING DATE: *August 02, 2002*
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By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office

P. R. GRANT
Certifying Officer

8-5-10231361*.080202

PTO/SB/05 (03-01)

JC682 U.S. PTO 08/02/02

Please type a plus sign (+) inside this box [ ]

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.:	CS21255UP
First Inventor:	FARIS, RANDI W.
Title:	SYSTEM FOR CONTENT COMMUNICATION AND METHOD THEREFOR
Express Mail Label No.:	ET906962514US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

JC682 U.S. PTO 08/02/02

1. [X] Fee Transmittal Form in duplicate
(Submit an original and a duplicate for fee processing)
2. [ ] Applicant claims small entity status
See 37 CFR 1.27
3. [X] Specification [Total Pages [39]]
(preferred arrangement set forth below)
-Descriptive title of the invention
-Cross Reference to Related Applications
-Statement Regarding Fed sponsored R&D
-Reference to sequence listing, a table,
or a computer program listing appendix
-Background of the Invention
-Brief Summary of the Invention
-Brief Description of the Drawings *(if filed*
-Detailed Description
-Claim(s)
-Abstract of the Disclosure
4. [X] Drawing(s) (35 U.S.C 113) [Total Sheets [6]]
5. Oath or Declaration [Total Pages [3]]
a. [X] Newly executed (original or copy)
b. [ ] Copy from a prior application (37 CFR 1.63(d))
(for continuation/ divisional with Box 18 completed)
i. [ ] DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1 63(d)(2) and 1.33(b).
6. [X] Application Data Sheet under 37 CFR 1.76
7. [ ] CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. [ ] Nucleotide and/or Amino Acid Sequence (if applicable, all necessary)
a. [ ] Computer Readable Form (CFR)
b. [ ] Specification Sequence Listing on:
i. [ ] CD-ROM or CD-R (2 copies);
ii. [ ] or paper
c. [ ] Statements verifying identify of above copies

J1040 U.S. PTO 10/211614 08/02/02

ACCOMPANYING APPLICATION PARTS

9. [X] Assignment Papers (cover sheet & document(s))
10. [ ] 37 CFR 3.73(b) Statement (when there is an assignee) [ ] Power of Attorney
11. [ ] English Translation Document (if applicable)
12. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
13. [ ] Preliminary Amendment
14. [X] Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. [ ] Certified Copy of Priority Document
(if foreign priority is claimed)
16. [ ] Nonpublication Request and Certification under 35 .U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. [ ] Other: _____

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

[ ] Continuation [ ] Divisional [ ] Continuation-in- Part (CIP) of Prior Appl. No. [ ]

Prior Appl. information: Examiner: [ ] Group/Art Unit: [ ]

19. CORRESPONDENCE ADDRESS

[X] Customer Number or Bar Code Label [ ] or [ ] Correspondence address below

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Address					
City		State		Zip Code	
Country	U.S.A.	Telephone	(954) 723-6449	Fax	(954) 723-5599
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SIGNATURE	Randi L. Dulaney		Date		8/2/02

[redacted]

10211614.030202

PTO/SB/17 (11-01)

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 924

Complete if Known	
Application No.	
Filing Date	
First Named Inventor	FARIS, RANDI W.
Examiner Name	
Group Art Unit	
Attorney Docket No.	CS21255UP

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 50-0757

Deposit Account Name: Motorola, Inc.

The Commissioner is hereby authorized to. (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayment

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
				SUBTOTAL (1)	($) 740

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid
Total Claims	28	-20* =	8	x	18	=	144
Independent Claims	2	-3* =	0	x	84	=	0
Multiple Dependent					280		

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
				SUBTOTAL (2) ($) 144

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
105	130	205	65	Surcharge – late filing fee or oath	
127	50	227	25	Surcharge – late Provisional filing	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for ex parte Reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1440	218	720	Extension for reply within fourth month	
128	1960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1280	241	640	Petition to revive - unintentional	
142	1280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	123	50	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of IDS	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					

*Reduced by Basic Filing Fee Pd

SUBTOTAL (3) $ 40

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Patent Application Data Entry Format – Bibliographic Data

INITIAL INFORMATION DATA SHEET

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Application Information:

Title Line One:	SYSTEM FOR CONTENT COMMUNICATION
Title Line Two:	AND METHOD THEREFOR
Total Drawing Sheets:	
Formal Drawings:	Yes
Application Type:	Utility
Docket Number:	CS21255UP

Representative Information:

Representative Customer Number:	24273

Continuity Information:

This application is a:	
Application One:	
Filing Date:	

Prior Foreign Applications:

Foreign Application One:	
Filing Date:	
Country:	
Priority Claimed:	

System for Content Communication and Method Therefor

Background of the Invention

Field of the Invention

This invention relates in general to communication systems and in particular to wireless communication systems for providing content to wireless communication devices.

Description of the Related Art

Historically, wireless communication devices, such as cellular telephones and two way messaging devices, have had the ability to receive a data and/or voice messages sent from a wireless communication system, and perform standard functions in response to message receipt such as storing the message, displaying the message, or alerting the user of receipt of the message. Data messages are typically a numeric message such as a phone number, or an alphanumeric message containing one unique piece of information such as "meeting in my office at 6:00pm."

The user is alerted of receipt of a new message by an audible alert or a vibratory alert. The display of many wireless communication devices today includes a message indicator for each message it has received and stored in memory. This message indicator allows a quick view for the user of how many messages are in the wireless communication device and also allows the user to quickly pick a message to

view. The display further can include a call receipt message indicating to the user a new call is being received and/or the source of the new call.

Today, wireless service providers are teaming up with content providers to provide content on wireless communication devices. The content providers benefit from such partnerships by being able to send content to a large number of potential consumers in a cost effective manner. The content, for example, can include weather, traffic, events, restaurants, shopping, services, sports, and the like. Adjunct content servers connected through the wireless communication system provide content information and other content services to device users that have their content configured according to personalized preferences, system generated information, and/or information generated directly from the wireless communication device.

Methods and systems have been developed in an attempt to satisfy the increasing demand for information, multimedia and other communication services on wireless communication devices. One of the most popular techniques of obtaining these services is through the Internet. The Internet is collection of over 25,000 computer networks connected through a communication backbone (NSFNET backbone) funded by the National Science Foundation (NSF) and is currently managed by Advanced Network System (ANS). A subscriber obtains an account with an organization's host computer (server) that is connected to the Internet through one or more networks. Traditionally, the subscriber is connected to the server through telephone lines using a personal computer (PC) and a modem. As use of the Internet becomes more popular, different methods of accessing the Internet have been

developed. For example, users can access the Internet using a wireless communication device.

One drawback of sending content such as Internet content to wireless communication devices via various wireless communication systems today is the amount of channel space required to send the content information. Service providers want to offer the content services without impacting channel space for traditional message communication. Another drawback is the amount of memory required to store such information on the wireless communication device. Users desire portable access to such content without the loss of memory storage for the traditional message communications, which is typically the dominant purpose of the wireless communication device.

Brief Description of the Drawings

The present invention will be described by way of exemplary embodiments, but not limitations, illustrated in the accompanying drawings in which like references denote similar elements, and in which:

FIG. 1 is an electronic block diagram of a wireless communication system, in accordance with a preferred embodiment of the present invention.

FIG. 2 is an electronic block diagram of a wireless communication device for use within the wireless communication system of FIG. 1, in accordance with a preferred embodiment of the present invention.

FIG. 3 is a block diagram of a content memory for use within the wireless communication device of FIG. 2, in accordance with a preferred embodiment of the present invention.

FIG. 4 illustrates one embodiment of a display for use within the wireless communication device of FIG. 2 in accordance with the present invention.

FIG. 5 illustrates a content message for communicating within the wireless communication system of FIG. 1 in accordance with a preferred embodiment of the present invention.

FIG. 6 illustrates a content portion communicated within the content message of FIG. 5 in accordance with a preferred embodiment of the present invention.

FIGs. 7 and 8 are flowcharts illustrating the operation of the wireless communication device of FIG. 2 in accordance with a preferred embodiment of the present invention.

Detailed Description Of The Preferred Embodiment(s)

As required, detailed embodiments of the present invention are disclosed herein; however, it is to be understood that the disclosed embodiments are merely exemplary of the invention, which can be embodied in various forms. Therefore, specific structural and functional details disclosed herein are not to be interpreted as limiting, but merely as a basis for the claims and as a representative basis for teaching one skilled in the art to variously employ the present invention in virtually any appropriately detailed structure. Further, the terms and phrases used herein are not

intended to be limiting; but rather, to provide an understandable description of the invention.

The terms a or an, as used herein, are defined as one or more than one. The term plurality, as used herein, is defined as two or more than two. The term another, as used herein, is defined as at least a second or more. The terms including and/or having, as used herein, are defined as comprising (i.e., open language). The term coupled, as used herein, is defined as connected, although not necessarily directly, and not necessarily mechanically. The term program, as used herein, is defined as a sequence of instructions designed for execution on a computer system. A program, or computer program, may include a subroutine, a function, a procedure, an object method, an object implementation, an executable application, an applet, a servlet, a source code, an object code, a shared library/dynamic load library and/or other sequence of instructions designed for execution on a computer system.

Referring to FIG. 1, an electronic block diagram of a wireless communication system 10 is shown. The wireless communication system 10 includes a message input device for initiating messages into the wireless communication system 10. The message input device can be, for example, a telephone 15, a computer 20, or a desktop messaging unit 25, connected through a conventional public switched telephone network (PSTN) 30 through a plurality of telephone links 35 to a system controller 40. The telephone links 35, for example, can be a plurality of twisted wire pairs, a fiber optic cable, or a multiplexed trunk line.

The system controller 40 is coupled to and oversees the operation of at least one radio frequency (RF) transmitter 45 and at least one radio frequency (RF) receiver

50 through one or more communication links 55. The communication links 55 typically are twisted pair telephone wires, and additionally can include radio frequency (RF), microwave, or other communication links. The radio frequency transmitter 45 and the radio frequency receiver 50 typically are used with message store and forward stations that encode and decode inbound and outbound messages into formats that are compatible with landline message switched computers and personal radio addressing requirements, such as cellular messages, short messaging service, or paging protocols. The system controller 40 can also function to encode and decode wireless messages that are transmitted to or received by the radio frequency transmitter 45 or the radio frequency receiver 50. Telephony signals are typically transmitted to and received from the system controller 40 by telephone sets such as the telephone 15 or a wireless communication device 60. The system controller 40 encodes and schedules outbound messages such as a downlink message 65. The system controller 40 then transmits the encoded outbound messages through the radio frequency transmitter 45 via a transmit antenna 70 to one or more of a plurality of wireless communication devices 75 such as the wireless communication device 60 on at least one outbound radio frequency (RF) channel 80. The downlink message 65 can be, for example, a data message or a voice call. Similarly, the system controller 40 receives and decodes inbound messages such as an uplink message 85 received by the radio frequency receiver 50 via a receive antenna 90 on at least one inbound radio frequency (RF) channel 95 from one of the plurality of wireless communication devices 75. The uplink message 85 can be, for example, a data message, a reply to a data message, a voice call, or a reply to a voice call.

It will be appreciated by one of ordinary skill in the art that the wireless communication system 10, in accordance with the present invention, can function utilizing any wireless RF channel, for example, a one or two-way pager channel, a mobile cellular telephone channel, or a mobile radio channel. Similarly, it will be appreciated by one of ordinary skill in the art that the wireless communication system 10 can function utilizing other types of communication channels such as infrared channels and/or Bluetooth channels. In the following description, the term "wireless communication system" refers to any of the wireless communication systems mentioned above or an equivalent.

Similarly, it will be appreciated by one of ordinary skill in the art that each of the plurality of wireless communication devices 75, such as the wireless communication device 60, in accordance with the present invention, can be a mobile cellular telephone, a mobile radio data terminal, a mobile cellular telephone having an attached or integrated data terminal, or a two way pager, such as the "Pagewriter 2000X" manufactured by Motorola Inc. of Schaumburg, Illinois. In the following description, the term "wireless communication device" refers to any of the devices mentioned above or an equivalent.

Each of the plurality of wireless communication devices 75 assigned for use in the wireless communication system 10 has an address or identity assigned thereto which is a unique selective call address in the wireless communication system 10. For example, the wireless communication device 60 assigned for use in the wireless communication system 10 has an address 100 assigned thereto which is a unique selective call address in the wireless communication system 10 for the wireless

communication device 60. The address 100 enables the transmission of the downlink message 65 from the system controller 40 only to the wireless communication device 60 having the address 100, and identifies the messages and responses received at the system controller 40 from the wireless communication device 60 with the address 100. In one embodiment, each of the plurality of wireless communication devices 75 also has a pin number assigned thereto, the pin number being associated with a telephone number within the PSTN 30. A list of the assigned addresses and correlated telephone numbers for each of the plurality of wireless communication devices 75 is stored in the system controller 40 in the form of a subscriber database 105.

Preferably, and in accordance with the present invention, the wireless communication system 10 is coupled to and receives a plurality of content 110. As illustrated, the plurality of content 110 is preferably received and processed by the system controller 40. It will be appreciated by those of ordinary skill in the art, that alternatively, the PSTN 30 can receive the plurality of content 110 and send it to the system controller 40 for processing (not shown). The plurality of content 110 can include, for example, content associated with physical events such as sporting events, content associated with television or radio broadcasts, wireless content, Internet content, or an equivalent. Each of the plurality of content 110 can be separately designated within the wireless communications system 10, or alternatively can be grouped within one or more topics. The plurality of content 110, for example, can include separately designated content such as weather, traffic, events, restaurants, shopping, services, sports, and the like. Further, for example, a general topic can be the National Football League (NFL) and all events relating to the NFL such as a live

NFL game via the Internet or a pay per view broadcasted NFL game can be grouped within the general topic.

FIG. 2 is an electronic block diagram of a preferred embodiment of the wireless communication device 60 for use within the wireless communication system 10 of FIG. 1 in accordance with the present invention. It will be appreciated by one of ordinary skill in the art that the electronic block diagram of FIG. 2 is illustrative of each of the plurality of wireless communication devices 75 assigned for use in the wireless communication system 10.

Referring to FIG. 2, the wireless communication device 60 includes a first antenna 115, a second antenna 120, a receiver 125, a transmitter 130, a clock 135, a processor 140, a memory 145, an alert circuit 150, a display 155, a user interface 160, a browser application 225, and a content management application 165. It will be appreciated by one of ordinary skill in the art that the content management application 165 and the browser application 225 can be a software program or any other equivalent.

The first antenna 115 intercepts transmitted signals from the wireless communication system 10. The first antenna 115 is coupled to the receiver 125, which employs conventional demodulation techniques for receiving the communication signals transmitted by the wireless communication system 10 such as the downlink message 65 of FIG. 1.

Coupled to the receiver 125, is the processor 140 utilizing conventional signal-processing techniques for processing received messages. Preferably, the processor 140 is similar to the MC68328 micro-controller manufactured by Motorola, Inc. of

Schaumburg, Illinois. It will be appreciated by one of ordinary skill in the art that other similar processors can be utilized for the processor 140, and that additional processors of the same or alternative type can be utilized as required to handle the processing requirements of the processor 140.

The processor 140 decodes an address in the demodulated data of the received message, compares the decoded address with one or more addresses such as the address 100 stored in an address memory 170 of the memory 145; and when a match is detected, proceeds to process the remaining portion of the received message.

To perform the necessary functions of the wireless communication device 60, the processor 140 is coupled to the memory 145, which preferably includes a random access memory (RAM), a read-only memory (ROM), and an electrically erasable programmable read-only memory (EEPROM)(not shown). The memory 145 is comprised of the address memory 170, a message memory 175, and a content memory 180.

FIG. 3 illustrates further detail of the content memory 180 in accordance with a preferred embodiment of the present invention. As illustrated, the content memory 180 preferably stores one or more content portions 185 for one or more of the plurality of content 110 received from the wireless communication system 10. Each content portion 185 includes one or more attributes 190. The one or more attributes 190 can, for example, include a color element 195, an image element 200, a title attribute 205, a time attribute 210, and a text element 215. The time attribute 210 specifies the time for the related content for which the content portion 185 is associated with. The title attribute 205 specifies the title text, which shall be displayed on the display 155 for

the content portion 185. The title attribute 205 gives the user an idea of what category the subject is in such as music, news, weather, and the like. When the user interface permits, the title attribute 205 can have a different appearance on the display 155 than the text element 215 of the content portion 185.

The image element 200 specifies the image file to be displayed along with the content portion 185 on the display 155. The actual image file must be fetched once received from the wireless communication system 10 such as within a content message. The image retrieved for example can be in GIF (Graphic Interchange Format) or PNG (Portable Network Graphics) format or an equivalent. When no image element 200 is specified for the content portion 185, a default image can be used. The text element 215 contains the text description of the content. It acts as a teaser to the more detailed article specified by a Uniform Resource Locator (URL) attribute 220 if present.

The color element 195 allows the content provider to specify the background color and text color of the content portion text display area on the display 155. If the color element doesn't exist, the background and text color of the text area preferably can be a default color. Preferably, if either of the attributes (text or background) is missing, the color element 195 is ignored by the content management application 165. In one embodiment, color values are specified in hexadecimal format as #RRGGBB, where RR = red value in hex, GG = the green value in hex, and BB = the green value in hex. Preferably, the color element 195 includes a background color attribute 235 and a text color attribute 240. The background color attribute 235 preferably specifies the sRGB (a standard default color space for the Internet) color of the text display area

background in the format #RRGGBB as previously described. The text attribute 240 specifies the sRGB color for the snack text in the format #RRGGBB as previously described.

In one embodiment, the one or more attributes 190 of the content portion 185 further includes the URL attribute 220. The URL attribute 220 allows the user to view more detailed information related to the content portion 185 using the browser application 225 or equivalent on the wireless communication device 60.

In one embodiment of the present invention, the one or more attributes 190 of the content portion 185 includes an expiration element 230. The expiration element 230 specifies the expiration time and date for the content portion 185. If no expiration element 230 is stored, the content portion 185 will not expire and will remain in the content memory 180 of the wireless communication device 60 until some other event causes it to be deleted. (for example: the content memory becomes full) The clock 135 on the wireless communication device 60 can be the time base for the deletion. In an alternate embodiment, the time attribute 10, if present, can be used as an indication of when the content portion 185 is to be deleted.

Referring back to FIG. 2, once the processor 140 has processed a received message, it stores the decoded message in the message memory 175. It will be appreciated by one of ordinary skill in the art that the message memory 175, in accordance with the present invention, can be a group of memory locations in a data storage device or an equivalent.

Upon receipt and processing of a message, the processor 140 preferably generates a command signal to the alert circuit 150 as a notification that the message

has been received and stored. The alert circuit 150 can include a speaker (not shown) with associated speaker drive circuitry capable of playing melodies and other audible alerts, a vibrator (not shown) with associated vibrator drive circuitry capable of producing a physical vibration, or one or more LEDs (not shown) with associated LED drive circuitry capable of producing a visual alert. It will be appreciated by one of ordinary skill in the art that other similar alerting means as well as any combination of the audible, vibratory, and visual alert outputs described can be used for the alert circuit 150.

Upon receipt of a message, the processor 140 preferably also generates a command signal to the display 155 to generate a visual notification of the receipt and storage of the message. When the display 155 receives the command signal from the processor 140 that the message has been received and stored in the message memory 175, a message indication is displayed. The message indication, for example can be the activation of one of a plurality of message icons on the display 155. The display 155 can be, for example, a liquid crystal display, a dot matrix display, or an equivalent.

The wireless communication device 60 preferably further includes the clock 135. The clock 135 provides timing for the processor 140. The clock 135 preferably includes a current time 245 for use in the operation of the wireless communication device 60 such as for use by the content management application 165. The clock 135 also provides a source for timing of feature enhancements such as active and inactive periods of operation or periods of alerting.

In a preferred embodiment, the wireless communication device 60 includes the content management application 165. The content management application 165 is programmed to process the one or more content portions 185 received by the receiver 125 and/or stored in the content memory 180, and to identify personalized content to be displayed to the user on the display 155. The wireless communication device 60 performs content management functions within the content management application 165 using a processor command 250 sent from the processor 140. The content management application 165 sends an application response 255 in reply to the processor command 250. The content management application 165 can be hard coded or programmed into the wireless communication device 60 during manufacturing, can be programmed over-the-air upon customer subscription, or can be a downloadable application. It will be appreciated by one of ordinary skill in the art that other programming methods can be utilized for programming the content management application 165 into the wireless communication device 60.

The content management application 165, in response to the processor command 250, preferably accesses the content memory 180 of the memory 145. The content management application 165 is programmed with a set of rules identifying the management of the one or more content portions 185 received by the receiver 125 and/or stored in the content memory 180. For example, the content management application 165 can identify the one or more content portions 185 to be displayed on the display 155. The content management application 165 sends the application response 255 to the processor 140 including the one or more content portions 185 and an associated plurality of attributes 190. The processor 140, in response to receipt of

the application response 255 sends a command signal to the display 155 identifying the content portion 185 and the plurality of attributes 190 for displaying on the display 155. In a preferred embodiment, the content information is received in a manner that is non-obtrusive to the device user. The one or more content portions 185 is received by the receiver 125 and forwarded by the processor 140 to the content memory 180 for storage and for later processing by the content management application 165. The user preferably is not alerted upon the receipt of each message containing the one or more content portions 185.

The content management application 165 is programmed to handle incoming content portions and expired content portions. The content management application 165 can be programmed, for example, to check expiration times in conjunction with the receipt of an incoming content portion, expiration of the scroll timer, or other such events. Similarly, the content management application 165 can be programmed to update the display 155 with a newly received and stored content portion when a scroll timer expires. Consequently, the content management application 165 can consider other pending events prior to updating the display 155 in order to present a more pleasing experience to the user.

FIG. 4 illustrates an example of the display 155 including the one or more content portions 185. As illustrated, the title attribute 205 and the time attribute 210 are preferably displayed on the first line of each content portion area. If the total length of the title attribute 205 and the time attribute 210 is longer than the number of characters, which can be displayed on that line, it can be truncated and an indication that it has been truncated displayed at the end of the line. The text element 215 is

displayed on the second and third lines of the content portion area. If the length of the text element 215 is longer than can be displayed on those two lines, it can be truncated and an indication that it has been truncated displayed at the end of the line. Each image element 200, for example, can be a 16-bit (or less) color image that is 55 pixels wide by 38 pixels high. If the image element 200 is larger than the available display space, it can be truncated to fit into the space. The image element 200 can either be centered, or upper left justified, or an equivalent.

Preferably, the user interface 160 is coupled to the processor 140, as shown in FIG. 2. The user interface 160 can be one or more buttons used to generate a button press, a series of button presses, a voice response from the device user, or some other similar method of manual response initiated by the device user of the wireless communication device 60. The processor 140, in response to the user interface 160, initiates the processor command 250 to the content management application 165. The content management application 165, in response to the processor command 250 can alter the displayed content portions and/or perform other actions on the one or more content portions. For example, pressing a button of the user interface 160 can cause all content portions to be updated and then the updated content portions displayed on the display 155. Similarly, pressing a button on the user interface 160 can cause all expired content portions to be deleted and all newly received content portions to be stored in the content memory 180. In one embodiment, the user interface 160 can be used to highlight one or more attributes of a content portion. Preferably, the user interface 160 is used to scroll between various displayed content portions, to select

various displayed content portions, and/or to select the URL attribute 220 for a displayed content portion to access the content associated with the content portion.

The transmitter 130 is coupled to the processor 140 and is responsive to commands from the processor 140. When the transmitter 130 receives a command from the processor 140, the transmitter 130 sends a signal via the second antenna 120 to the wireless communication system 10. The signal, for example, can be the uplink message 85. (see FIG. 1).

In an alternative embodiment (not shown), the wireless communication device 60 includes one antenna performing the functionality of the first antenna 115 and the second antenna 120. Further, the wireless communication device 60 alternatively includes a transceiver circuit performing the functionality of the receiver 125 and the transmitter 130. It will be appreciated by one of ordinary skill in the art that other similar electronic block diagrams of the same or alternate type can be utilized for the wireless communication device 60 to handle the requirements of the wireless communication device 60.

Content information is preferably sent from the wireless communication system 10 to one or more of the plurality of wireless communication devices 75 using the extensible markup language (XML). XML is a universal format for structured documents and data on the World Wide Web. XML is a set of rules (i.e.: guidelines or conventions) for designing text formats for structuring data. XML makes use of tags (words bracketed by '<' and '>') and attributes (of the form name="value"). XML uses the tags only to delimit pieces of data, and leaves the interpretation of the data completely to the application that reads it.

Preferably, the content delivery mechanism uses the wireless application protocol (WAP) push method. This method allows content to be sent or "pushed" to devices by server-based applications via a push proxy. Push functionality is especially relevant to real-time applications that send notifications to their users, such as messaging, stock price and traffic update alerts. Without push functionality, these types of applications would require the devices to poll application servers for new information or status. In wireless environments such polling activities would constitute inefficient and wasteful use of the resources of wireless communication systems. WAP's push functionality provides control over the lifetime of pushed messages, store & forward capabilities at the push proxy and control over the bearer's choice for delivery. Each pushed message contains a URL to the content associated with each of the one or more content portions 185. In a preferred embodiment, the wireless communication device 60 can fetch the content associated with each of the one or more content portions 185 when it receives a push message. One or more fetch actions may be required when the content portion 185 includes a URL to the content and a URL to the image associated with the content. Once the content portion has been fetched, it will be sent up to the content memory 180 for storage. Content portions that do not contain the required elements and attributes are preferably discarded.

FIG. 5 illustrates a content message 260 for communicating content information. The content message 260 can be, for example, the downlink message 65 of FIG. 1. As illustrated in FIG. 5, the content message 260 preferably includes a document type 265, a root element 268, a clear attribute 275, and an information

message 278. In accordance with the present invention, the information message 278 can be either a portal element 270 or one or more communicated content portions 280.

When the downlink message 65 sent from the wireless communication system 10 to one or more of the plurality of wireless communication devices 75 is the content message 260, the document type 265 preferably is set to indicate that the data to follow relates to one or more communicated content portions 280. For example, the document type 265 can be indicated by "text/x-motorola.sxl." Upon receipt of a message with the document type 265 = text/x-motorola.sxl, the processor 140 can be sends the processor command 250 to the content management application 165.

The root element 268 is the top-level element in the XML document hierarchy. The root element contains all other elements. Each document can have only one root. All other elements are nested within it.

The portal element 270 indicates where the user can go to customize the one or more content portions 185 stored in the content memory 180. For example, the portal element 270 indicates where the user can go to customize the one or more communicated content portions 280 sent within the content message 260. The portal element 270 includes a portal URL 285 in which the user can access and update one or more preferences. The portal URL 285 is preferably stored in the memory 145 of the wireless communication device 60. When the wireless communication device 60 receives a new portal element 270, the new portal element 270 replaces the currently stored portal URL. It will be appreciated by those of ordinary skill in the art that the device user can access the portal URL 285 through the browser application 225 by initiating an input to the user interface 160. For example, the portal URL 285 can be

assigned to a button, which, when pressed, displays that web page using the browser application 225. It will further be appreciated by those of ordinary skill in the art that the one or more preferences for content message receipt can be updated by a user at the portal URL 285 using the browser application 225 in response to an input from the user interface 160 of the wireless communication device 60.

The clear attribute 275 is used to flush the existing queue of stored content portions 185. When the clear attribute 275 is set to "yes" in the content message 260, the wireless communication device 60 deletes all existing (received) content portions from the content memory 180 prior to storing any new one or more communicated content portions 280. It will be appreciated by those of ordinary skill in the art that the new one or more communicated content portions 280 can be included in the content message 260 containing the clear attribute 275 set to "yes"; or alternatively can be included in a second content message communicated after the stored content portions have been deleted. When the clear attribute 275 is set to "no" or is not present in the content message 260, the one or more communicated content portions 280 of the content message 260 will be considered an incremental update.

FIG. 6 illustrates the one or more communicated content portion 280 in further detail. As illustrated in FIG. 6, the communicated content portion 280 preferably includes one or more attributes including the color element 195 (including the background color 235 and the text color 240), the expiration element 230, an image reference attribute 290, the text element 215, the URL attribute 220, the time attribute 210, and the title attribute 205. The image reference attribute specifies the URL for the image data file. This data file can be retrieved once the content message 260 is

received. The image URL is discarded once the image element 200 has been retrieved and stored in the content memory 180. The attributes included in the communicated content portion 280 are substantially equivalent to those described previously herein for FIG. 3.

One example of the data format of the content message 260 of FIGs. 5 and 6 is illustrated below:

```
<?xml version="1.0"? encoding="UTF-8" standalone="no"?>
<!DOCTYPE sxl SYSTEM "http://URI/xml/dtds/sxl.dtd">
<!-- a color using sRGB: #RRGGBB as Hex values -->
<!ENTITY % Color "CDATA">
<!ELEMENT SXL (PORTAL | SNACK+ )>
<!ATTLIST SXL
clear CDATA #IMPLIED
>
<!ELEMENT PORTAL EMPTY>
<!ATTLIST PORTAL
        href CDATA #REQUIRED
>
<!ELEMENT SNACK (COLOR?, EXP?, IMG, T)>
<!ATTLIST SNACK
        href CDATA #REQUIRED
        time CDATA #IMPLIED
        title CDATA #REQUIRED
```

```
        >
<!ELEMENT COLOR EMPTY>
<!ATTLIST COLOR
        bg %Color; #REQUIRED
        text %Color #REQUIRED
>
<!ELEMENT EXP EMPTY>
<!ATTLIST EXP
        time CDATA #REQUIRED
        >
<!ELEMENT IMG EMPTY>
<!ATTLIST IMG
        href CDATA #IMPLIED
>
<!ELEMENT T (#PCDATA)>
```

FIG. 7 is a flowchart illustrating the operation of the wireless communication device 60 of FIG. 2 in accordance with a preferred embodiment of the present invention. Specifically, FIG. 7 illustrates the processing of a received content message 260 by the wireless communication device 60. The process begins with Step 300 wherein the wireless communication device 60 checks for a received message. The wireless communication device 60, for example, can receive the downlink message 65 from the wireless communication system 10 via the first

antenna 115 coupled to the receiver 125. When no message has been received in Step 300, the process cycles back and periodically checks for a received message. Next, in Step 302, when a message has been received, the wireless communication device 60 queries whether the application identification (APP ID) in the WAP push is the APP ID designated for the content management application 165. Next, in Step 305, when the application identification is the APP ID designated for the content management application 165, the received message is pushed to the content management application 165 for further processing. Specifically, the content management application 165 of the wireless communication device 60 determines whether the received message is a content message 260. For example, the content management application 165 determines whether the received message includes the document type 265 set to indicate that the data to follow relates to one or more content communicated content portions 280. In Step 310, when the received message is not a content message 260 in Step 305 and also when the application identification is not the APP ID designated for the content management application 165 in Step 302, the message is processed as a standard received message. For example, the message is stored in the message memory 175 of the memory 145 and the processor sends a command signal to the alert circuit 150 and a command signal to the display 155 to notify the user of the received message. The process then cycles back to Step 300 and periodically checks for receipt of a message.

Next in Step 315, when the received message is a content message 260, the content management application 165 of the wireless communication device 60 determines whether the content message 260 includes a clear attribute 275 set to

"yes". It will be appreciated by those of ordinary skill in the art that the clear attribute 275 being set as a "yes" is an example for illustration purposes only, and that the clear attribute 275 can be set to any affirmative indication that the one or more content portions 185 should be deleted from the content memory 180. In Step 320, when the content message 260 includes the clear attribute 275 set to "yes", the wireless communication device 60 deletes the one or more content portions 185 stored in the content memory 180 of the memory 145. Next, in Step 325, when the one or more content portions 185 stored in the content memory 180 have been deleted (i.e. the content memory 180 is empty), and when the clear attribute 275 is set to "no" (or any other indication not to delete the one or more content portions 185 from the content memory 180) or not present in the content message 260, the content management application 165 determines whether the information message 278 of the content message 260 includes a portal element 325. In Step 320, when the information message 278 includes a portal element 325, the associated portal URL 285 is stored in the memory 145 for later access and use by the device user. The process then returns to Step 300 and periodically checks for received messages. In Step 335, when the information message 278 does not include a portal element 325, a counter is set to N=1. Next, in Step 340, the content management application 165 determines whether the information message 278 of the content message 260 includes an Nth content portion. When the Nth content portion is not included in the content message 260, the process cycles back to Step 300 and periodically checks for received messages. In Step 345, when the content message 260 includes the Nth content portion, the content management application 165 processes the Nth content portion. Next, in Step 350,

the counter is incremented to N=N+1 and the process cycles back to Step 340 to check for the presence of the Nth content portion in the content message 260.

FIG. 8 is a flowchart illustrating further detail of the operation of the wireless communication device 60 of FIG. 2 in accordance with a preferred embodiment of the present invention. Specifically, FIG.8 illustrates the processing of a communicated content portion 280 as in Step 345 of FIG. 7 by the content management application 165 of the wireless communication device 60. The process begins with Step 360 wherein the content management application 165 determines whether the content portion includes a color element 195. In Step 365, when no color element 165 is included, the background and text color of the text area to be displayed on the display 155 for the communicated content portion 280 is set to a default color. In Step 370, when a color element 165 is included in the communicated content portion 280, the background color and the text color of the text area to be displayed on the display 155 for the communicated content portion 280 is set to the background color and text color of the background color attribute 235 and the text color attribute 240 preferably sent with the color element 195. Next, in Step 375, the content management application 165 determines whether an expiration element 230. In Step 380, when an expiration element 230 is included in the communicated content portion 280, the content management application 165 compares the current time 245 with the expiration time of the expiration element 230. In Step 385, when the current time 245 is at least equal to (i.e. greater than or equal to) the expiration time, the communicated content portion 280 received within the content message 260 is discarded. In Step 390, when the current time 245 is less than the expiration time, the expiration time is

set and stored within the content memory 180 location for the communicated content portion 280. In Step 395, when no expiration element 230 is included within the communicated content portion 280 in Step 375, and when the expiration time has been stored in Step 390, the content management application 165 determines whether the communicated content portion 280 includes an image element 200. In Step 400, when the image element 200 is included, the image file is retrieved. For example, the content management application 165 informs the processor 140 to retrieve the image from the specified URL within the image element 200. In Step 405, when no image element 200 is included within the communicated content portion 280, a default image is identified for the communicated content portion 280. Next in Step 410, the image for the communicated content portion 280 is stored in the content memory 180. Next, in Step 415, the content management application 165 determines whether the communicated content portion 280 includes a text element 215. When no text element 214 is present, the process cycles to Step 385 the communicated content portion 280 received within the content message 260 is discarded. In Step 420, when the text element 215 is included, the text description of the content contained within the text element 215 is stored in the content memory 180. Next, in Step 425, the content management application 165 determines whether the communicated content portion 280 includes a URL attribute 220. When no URL attribute 220 is present, the process cycles to Step 385 the communicated content portion 280 received within the content message 260 is discarded. Next, in Step 430, when the URL attribute 220 is included, the URL of the content associated with the communicated content portion 180 is stored in the content memory 180. The user can later retrieve the content

associated with the communicated content portion 180 as desired using the stored URL. Next, in Step 435, the content management application 165 determines whether the time attribute 210 is included within the communicated content portion 280. In Step 440, when the time attribute 210 is included, the time for the communicated content portion 280 is stored within the content memory 180. Next, in Step 445, and when no time attribute is present in Step 435, the content management application 165 determines whether a title attribute 205 is present in the communicated content portion 280. When the title attribute is present, the title text is stored in the content memory 180. When no title attribute 205 is present, the process cycles to Step 385 the communicated content portion 280 received within the content message 260 is discarded.

The present invention as described herein provides a communication system and method for communication of content. Although the invention has been described in terms of preferred embodiments, it will be obvious to those skilled in the art that various alterations and modifications can be made without departing from the invention. Accordingly, it is intended that all such alterations and modifications be considered as within the spirit and scope of the invention as defined by the appended claims.

What is claimed is:

CLAIMS

1. A method for communicating content comprising:

transmitting a content message from a wireless communication system to at one or more of a plurality of wireless communication devices, wherein the content message comprises:

a document type, wherein the document type indicates that the content message includes data relating to one or more content portions,

a clear attribute, and

an information message;

receiving the content message by at least one wireless communication device, wherein the wireless communication device includes a content memory for storing one or more content portions; and

deleting the one or more content portions in response to receiving the content message when the clear attribute is set to "yes".

2. The method of communicating content as recited in claim 1 wherein the information message comprises one or more communicated content portions, the method further comprising:

storing the one or more communicated content portions in the content memory after the deleting step.

3. The method of communicating content as recited in claim 1 further comprising:

receiving a second content message by the wireless communication device after the deleting step, wherein the second content message includes one or more communicated content portions; and

storing the one or more communicated content portions in the content memory.

4. The method of communicating content as recited in claim 1 wherein the information message comprises a portal element including a portal URL, the method further comprising:

storing the portal URL in a memory of the wireless communication device;

accessing the portal URL through a browser application on the wireless communication device in response to an input from a user interface; and

updating one or more preferences for content receipt through the browser application in response to another input from the user interface of the wireless communication device at the portal URL.

5. The method of communicating content as recited in claim 1 wherein the information message comprises one or more communicated content portions, the method further comprising:

processing the one or more communicated content portions by a content management application of the wireless communication device after the receiving step; and

storing the one or more communicated content portions in the content memory of the wireless communication device.

6. The method of communicating content as recited in claim 5, further comprising:

displaying the one or more communicated content portions stored in the content memory on a display of the wireless communication device.

7. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes a color element, and further wherein the processing step comprises:

setting a background color and a text color of a text area to be used for displaying the one or more communicated content portions on the display.

8. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes an expiration element having an expiration time, and further wherein the processing step comprises:

comparing a current time to the expiration time, and

discarding the one or more communicated content portions when the current time is at least equal to the expiration time.

9. The method of communicating content as recited in claim 8 wherein the processing step further comprises:

storing the expiration time in the content memory within the one or more communicated content portions when the current time is less than the expiration time, and

deleting the one or more communicated content portion from the content memory when the current time is at least equal to the expiration time.

10. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes an image element having a specified URL, wherein the processing step comprises:

retrieving the image from the specified URL,

storing the image within the one or more communicated content portions of the content memory.

11. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes a text element comprising a test description of the content, wherein the processing step comprises:

storing the text description of the content within the one or more communicated content portions within the content memory.

12. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes a URL attribute comprising the URL of the content associated with the communicated content portion, wherein the processing step comprises:

storing the URL within the communicated content portion in the content memory, and

retrieving the content associated with the communicated content portion through a browser application using the URL in response to an input from a user interface.

13. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes a time attribute comprising the time for the communicated content portion, wherein the processing step comprises:

storing the time attribute within the one or more communicated content portions within the content memory.

14. The method of communicating content as recited in claim 6, wherein the one or more communicated content portions includes a title attribute comprising the title text for the communicated content portion, wherein the processing step comprises:

storing the title attribute within the one or more communicated content portions within the content memory.

15. A wireless communication device for receiving communicated content, the wireless communication device comprising:

a receiver for receiving a content message from a wireless communication system, wherein the content message comprises:

a document type, wherein the document type indicates that the content message includes data relating to one or more content portions,

a clear attribute, and

an information message;

a processor coupled to the receiver for processing the content message;

a content memory coupled to the processor for storing one or more content portions; and

a content management application coupled to the processor and coupled to the content memory, wherein the content management application is programmed to delete the one or more content portions in response to receiving the content message when the clear attribute is set to "yes".

16. The wireless communication device as recited in claim 15 wherein the content management application is further programmed to store one or more communicated content portions contained within the information message in the content memory after deleting the one or more content portions from the content memory.

17. The wireless communication device as recited in claim 15 wherein the content management application is further programmed to store in the content memory one or more communicated content portions contained within a second received content message.

18. The wireless communication device as recited in claim 15 further comprising:

a memory coupled to the processor for storing a portal URL contained within the information message of the received content message;

a browser application coupled to the processor for accessing the portal URL in response to an input from a user interface; and

the user interface coupled to the processor for providing the input for accessing the portal URL and further for providing another input for updating one or more preferences for content receipt through the browser application at the portal URL.

19. The wireless communication device as recited in claim 15, wherein the content management application is further programmed to process one or more communicated content portions contained within the information message of the received content message and to store the one or more communicated content portions in the content memory.

20. The wireless communication device as recited in claim 19 further comprising:

a display coupled to the processor for displaying the one or more communicated content portions stored in the content memory.

21. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes a color element, and further wherein the content management application is further programmed to set a background color and a text color of a text area contained within the color element to be used for displaying the one or more communicated content portions on the display.

22. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes an expiration element having an expiration time, and further wherein the content management application is further programmed to comparing a current time to the expiration time, and to discard the one or more communicated content portions when the current time is at least equal to the expiration time.

23. The wireless communication device as recited in claim 22 wherein the content management application is further programmed to store the expiration time in the content memory within the one or more communicated content portions when the current time is less than the expiration time, and to delete the one or more communicated content portion from the content memory when the current time is at least equal to the expiration time.

24. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes an image element having a specified URL, and further wherein the content management application is further programmed to retrieve the image from the specified URL, and to store the image within the one or more communicated content portions of the content memory.

25. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes a text element comprising a test description of the content, and further wherein the content management application is further programmed to store the text description of the content within the one or more communicated content portions within the content memory.

26. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes a URL attribute comprising the URL of the content associated with the communicated content portion, wherein the content management application is further programmed to store the URL with the communicated content portion in the content memory, the wireless communication device further comprising:

a browser application coupled to the processor for retrieving the content associated with the communicated content portion using the URL in response to an input from a user interface; and

the user interface coupled to the processor for providing the input.

27. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes a time attribute comprising the time for the communicated content portion, and further wherein the content management application is programmed to store the time attribute within the one or more communicated content portions within the content memory.

28. The wireless communication device as recited in claim 20, wherein the one or more communicated content portions includes a title attribute comprising the title text for the communicated content portion, and further wherein the content management application is further programmed to store the title attribute within the one or more communicated content portions within the content memory.

System for Content Communication and Method Therefor

Abstract of the Disclosure

A wireless communication device (60) for receiving communicated content includes a receiver (125), a processor (140), a content memory (180), and a content management application (165). The receiver (125) receives a content message (260) from a wireless communication system (10). The content message (260) includes a document type (265), wherein the document type indicates that the content message (260) includes data relating to one or more communicated content portions (280). The content management application (165) processes the data relating to the one or more communicated content portions (280) and stores the data relating to the one or more communicated content portions (280) in the content memory (180).

PLURALITY OF CONTENT
110
SYSTEM CONTROLLER
SUBSCRIBER DATABASE
40
105
RF TRANSMITTER
45
RF RECEIVER
50
55
55
PSTN
30
35
15
20
25
DOWNLINK MESSAGE
65
UPLINK MESSAGE
85
95
80
70
90
ADDRESS
100
ADDRESS
60
75
10

FIG. 1

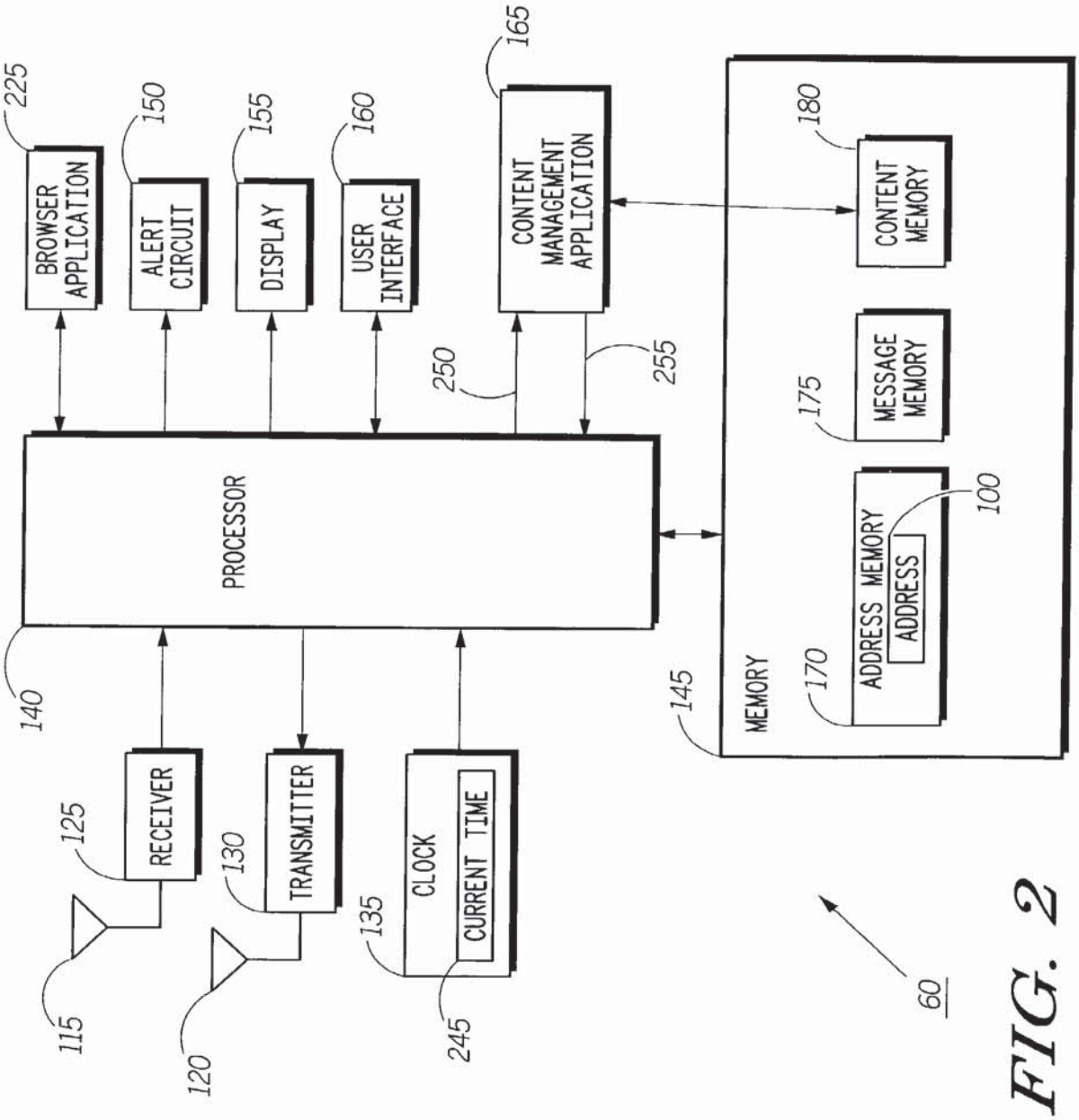

225
BROWSER APPLICATION
150
ALERT CIRCUIT
155
DISPLAY
160
USER INTERFACE
165
CONTENT MANAGEMENT APPLICATION
180
CONTENT MEMORY
250
255
175
MESSAGE MEMORY
PROCESSOR
ADDRESS MEMORY
ADDRESS
100
140
145
MEMORY
170
125
RECEIVER
130
TRANSMITTER
135
CLOCK
CURRENT TIME
115
120
245
60

FIG. 2

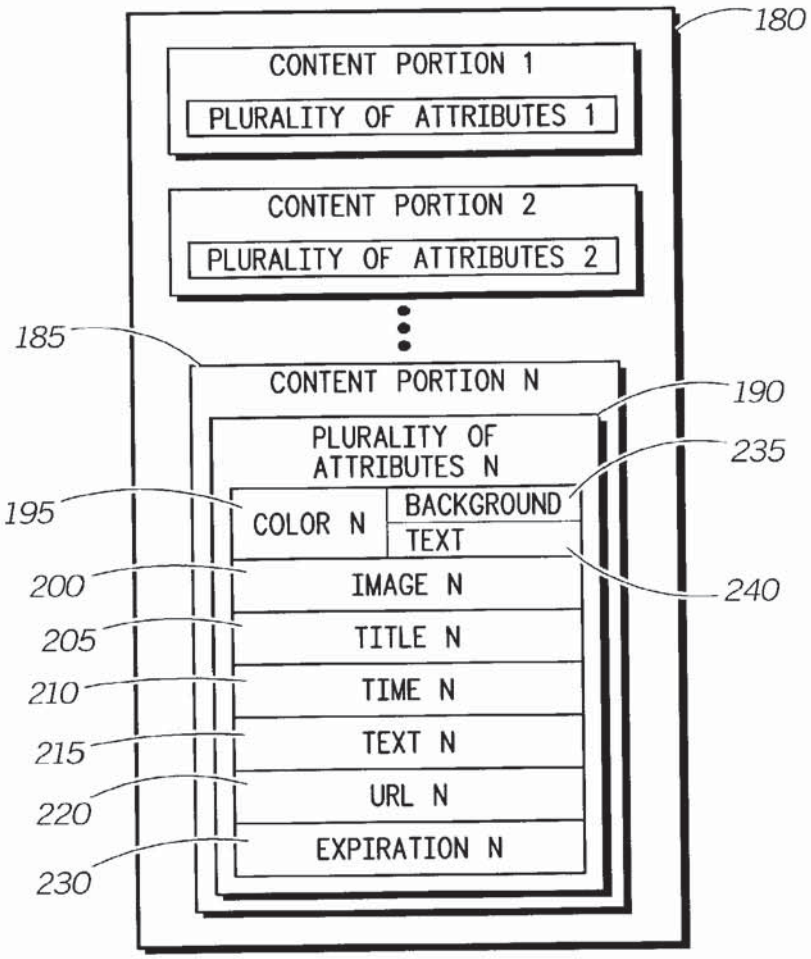

180
CONTENT PORTION 1
PLURALITY OF ATTRIBUTES 1
CONTENT PORTION 2
PLURALITY OF ATTRIBUTES 2
185
CONTENT PORTION N
190
PLURALITY OF ATTRIBUTES N
235
195
COLOR N
BACKGROUND
TEXT
240
200
IMAGE N
205
TITLE N
210
TIME N
215
TEXT N
220
URL N
230
EXPIRATION N

FIG. 3

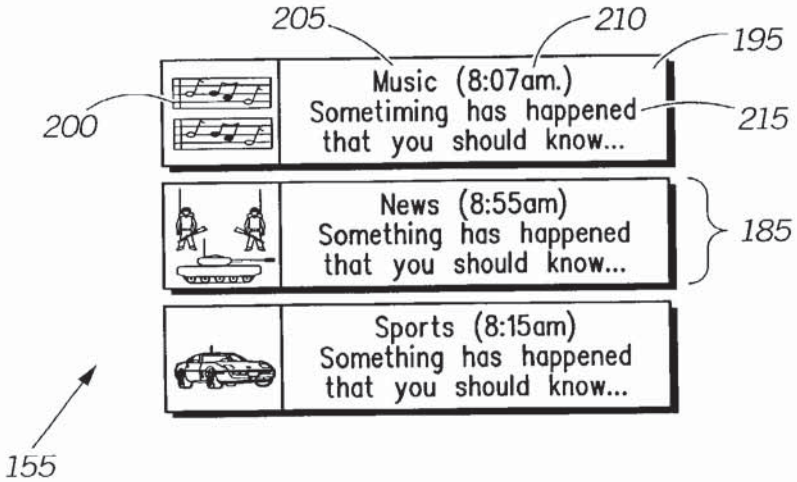

205
210
195
200
Music (8:07am.)
Sometiming has happened
that you should know...
215
News (8:55am)
Something has happened
that you should know...
185
Sports (8:15am)
Something has happened
that you should know...
155

FIG. 4

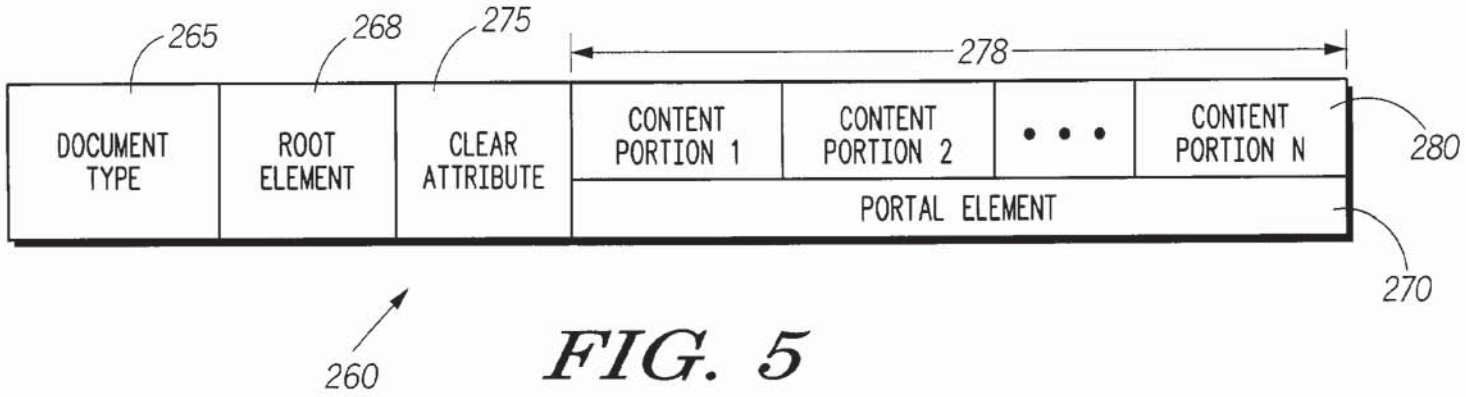

265
268
275
278
DOCUMENT TYPE
ROOT ELEMENT
CLEAR ATTRIBUTE
CONTENT PORTION 1
CONTENT PORTION 2
• • •
CONTENT PORTION N
280
PORTAL ELEMENT
270
260

FIG. 5

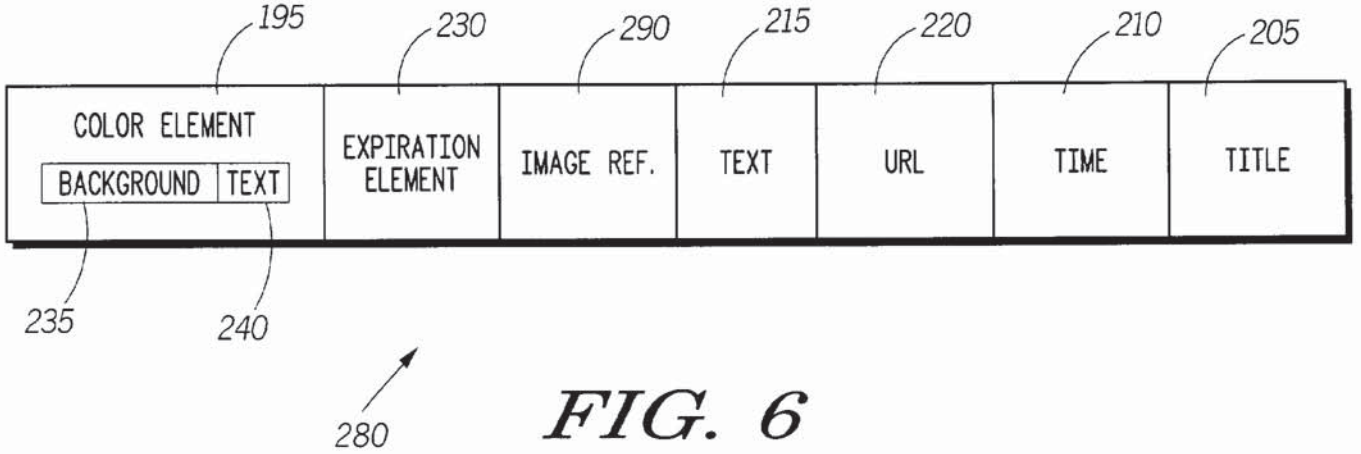

195
230
290
215
220
210
205
COLOR ELEMENT
BACKGROUND
TEXT
EXPIRATION ELEMENT
IMAGE REF.
TEXT
URL
TIME
TITLE
235
240
280

FIG. 6

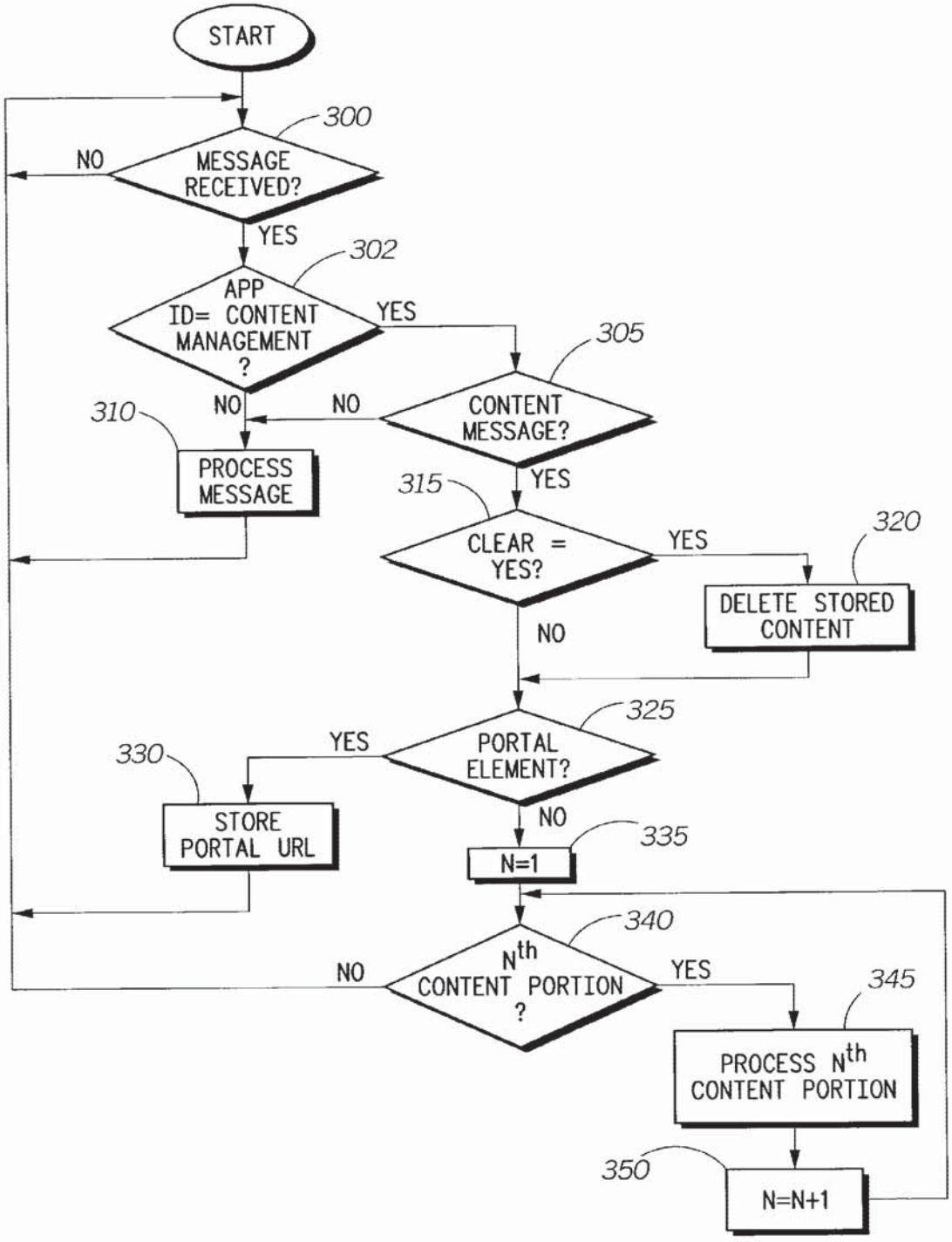

START
300
MESSAGE RECEIVED?
NO
YES
302
APP ID= CONTENT MANAGEMENT ?
YES
305
CONTENT MESSAGE?
NO
NO
310
PROCESS MESSAGE
315
CLEAR = YES?
YES
320
DELETE STORED CONTENT
NO
325
PORTAL ELEMENT?
YES
330
STORE PORTAL URL
NO
335
N=1
340
Nth CONTENT PORTION ?
NO
YES
345
PROCESS Nth CONTENT PORTION
350
N=N+1

FIG. 7

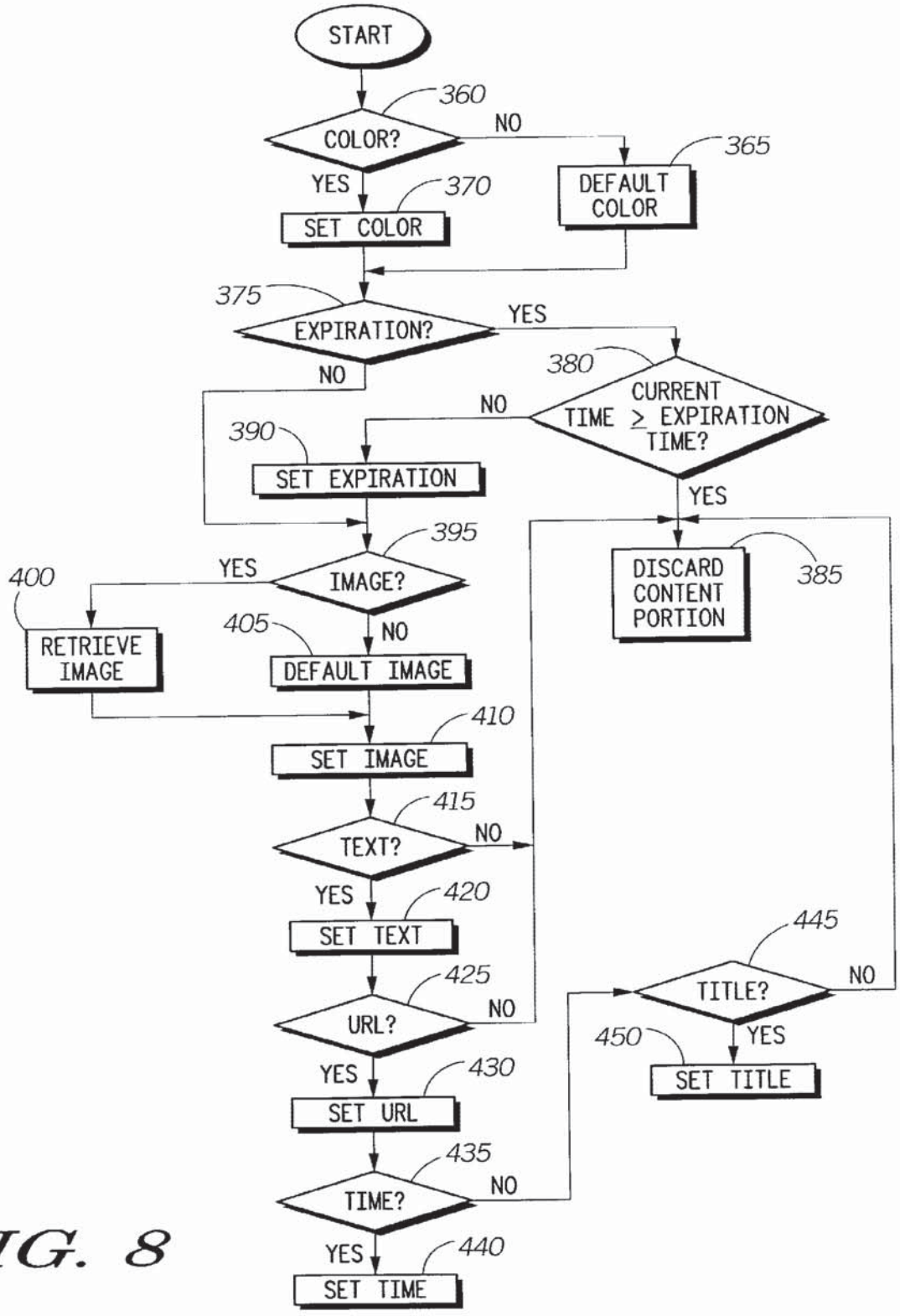

START
360
COLOR?
NO
365
DEFAULT COLOR
YES
370
SET COLOR
375
EXPIRATION?
YES
NO
380
CURRENT TIME ≥ EXPIRATION TIME?
NO
390
SET EXPIRATION
YES
395
IMAGE?
YES
400
RETRIEVE IMAGE
NO
405
DEFAULT IMAGE
410
SET IMAGE
415
TEXT?
NO
YES
420
SET TEXT
425
URL?
NO
YES
430
SET URL
435
TIME?
NO
YES
440
SET TIME
DISCARD CONTENT PORTION
385
445
TITLE?
NO
YES
450
SET TITLE

FIG. 8

DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) COMBINED WITH POWER OF ATTORNEY

☒ Declaration Submitted with Initial Filing ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16(e)) required)

☒ Regular (Utility) Application ☐ Design application

Attorney Docket Number	CS21255UP
First Named Inventor	RANDI W. FARIS
Application Number	
Filing Date	
Group Art Unit	
Examiner Name	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

SYSTEM FOR CONTENT COMMUNICATION AND METHOD THEREFOR

the specification of which:

☒ is attached hereto ☐ was filed on: _____

as U.S. Serial No.: _____

and was amended on: _____ *(if applicable)*

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed::

Prior Foreign Application Number(s)	Country	Foreign Filing Date *(MM/DD/YYYY)*	Priority Not Claimed	Certified Copy Attached?
				☐ Yes ☐ No
				☐ Yes ☐ No

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

Provisional Application Serial No.:	
Provisional Application Filing Date:	

I hereby claim the priority benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which is material to the patentability of this application and which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Prior U.S. Application(s):

☒ no such application(s) filed
☐ such application(s) identified as follows:

Application No.	Filing Date *(day, month, year)*	Status *(Patented, Pending, Abandoned)*

I hereby declare that: as to any claimed subject matter of this application which is common to my earlier United States or foreign application(s), if any, which I have identified above and claimed the benefit of priority thereof, I do not believe that the same was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the first of said earlier application(s), or in public use or on sale in the United States more than one year prior to the first of said earlier application(s), and that the said common subject matter has not been patented or made the subject of an inventor's certificate before the date of the first of said earlier U.S. application(s) in any country foreign to the United States on an application, filed by me or my legal representatives or assigns more than twelve months (six months if the present application is a Design patent application) prior to the first of said earlier U.S. application(s), if any; and that, as to any claimed subject matter of this application which is not common to said earlier application(s), if any, I do not know and do not believe that the same was ever known or used in the United States before my invention thereof or patented or described in any printed publication in any country before my invention thereof or more than one year prior to the date of this application, or in public use or on sale in the United States more than one year prior to the date of this application, and that said subject matter has not been patented or made the subject of an inventor's certificate in any country foreign to the United States on an application filed by me or my legal representatives or assigns more than twelve months (six months if the present application is a Design patent application) prior to the date of this application.

I hereby appoint the attorney(s) or agent(s) associated with: Customer Number **24273** to prosecute this application and transact all business in the patent and trademark office connected therewith.

Address all telephone calls to:

Randi L. Dulaney
Telephone: **954-723-6449**
Facsimile: **954-723-5599**

Address all correspondence to: Customer Number **24273**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first-named or sole inventor	RANDI W. FARIS	
Inventor's signature	Randi W. Faris	Date Aug. 2, 2002
Residence	BOCA RATON (City)	FLORIDA (State or Foreign Country)
Citizenship	U.S.A. (Country)	
Post Office Address	701 SW 5TH STREET (Street Address)	
BOCA RATON (City)	FLORIDA (State or Country)	33486 (Zip Code)

Full name of second-named joint inventor		
Inventor's signature		Date
Residence	City	State or Foreign Country
Citizenship	Country	
Post Office Address	Street Address	
City	State or Country	Zip Code

8-5-10231361*.080202

PTO/SB/05 (03-01)

JC682 U.S. PTO 08/02/02

Please type a plus sign (+) inside this box [ ]

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.:	CS21255UP
First Inventor:	FARIS, RANDI W.
Title:	SYSTEM FOR CONTENT COMMUNICATION AND METHOD THEREFOR
Express Mail Label No.:	ET906962514US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, D.C. 20231

JC682 U.S. PTO 08/02/02

1. [X] Fee Transmittal Form in duplicate
(Submit an original and a duplicate for fee processing)
2. [ ] Applicant claims small entity status
See 37 CFR 1.27
3. [X] Specification [Total Pages [39]]
(preferred arrangement set forth below)
-Descriptive title of the invention
-Cross Reference to Related Applications
-Statement Regarding Fed sponsored R&D
-Reference to sequence listing, a table,
or a computer program listing appendix
-Background of the Invention
-Brief Summary of the Invention
-Brief Description of the Drawings *(if filed*
-Detailed Description
-Claim(s)
-Abstract of the Disclosure
4. [X] Drawing(s) (35 U.S.C 113) [Total Sheets [6]]
5. Oath or Declaration [Total Pages [3]]
a. [X] Newly executed (original or copy)
b. [ ] Copy from a prior application (37 CFR 1.63(d))
(for continuation/ divisional with Box 18 completed)
i. [ ] DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1 63(d)(2) and 1.33(b).
6. [X] Application Data Sheet under 37 CFR 1.76
7. [ ] CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. [ ] Nucleotide and/or Amino Acid Sequence (if applicable, all necessary)
a. [ ] Computer Readable Form (CFR)
b. [ ] Specification Sequence Listing on:
i. [ ] CD-ROM or CD-R (2 copies);
ii. [ ] or paper
c. [ ] Statements verifying identify of above copies

J1040 U.S. PTO 10/211614 08/02/02

ACCOMPANYING APPLICATION PARTS

9. [X] Assignment Papers (cover sheet & document(s))
10. [ ] 37 CFR 3.73(b) Statement (when there is an assignee) [ ] Power of Attorney
11. [ ] English Translation Document (if applicable)
12. [ ] Information Disclosure Statement (IDS)/PTO-1449 [ ] Copies of IDS Citations
13. [ ] Preliminary Amendment
14. [X] Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. [ ] Certified Copy of Priority Document
(if foreign priority is claimed)
16. [ ] Nonpublication Request and Certification under 35 .U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. [ ] Other: _____

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

[ ] Continuation [ ] Divisional [ ] Continuation-in- Part (CIP) of Prior Appl. No. [ ]

Prior Appl. information: Examiner: [ ] Group/Art Unit: [ ]

19. CORRESPONDENCE ADDRESS

[X] Customer Number or Bar Code Label [ ] or [ ] Correspondence address below

Name					
Address					
City		State		Zip Code	
Country	U.S.A.	Telephone	(954) 723-6449	Fax	(954) 723-5599
Name	Randi L. Dulaney		Registration Number (Attorney/Agent)		46,148
SIGNATURE	Randi L. Dulaney		Date		8/2/02

[redacted]

10211614.030202

PTO/SB/17 (11-01)

FEE TRANSMITTAL for FY 2002

Patent fees are subject to annual revision

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT ($) 924

Complete if Known	
Application No.	
Filing Date	
First Named Inventor	FARIS, RANDI W.
Examiner Name	
Group Art Unit	
Attorney Docket No.	CS21255UP

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 50-0757

Deposit Account Name: Motorola, Inc.

The Commissioner is hereby authorized to. (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayment

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, **except for the filing fee** to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	740
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	
				SUBTOTAL (1)	($) 740

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

			Extra Claims		Fee from below		Fee Paid
Total Claims	28	-20* =	8	x	18	=	144
Independent Claims	2	-3* =	0	x	84	=	0
Multiple Dependent					280		

Large Entity Fee Code	Large Entity Fee $	Small Entity Fee Code	Small Entity Fee $	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple dependent claim, if not paid
109	84	209	42	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent
				SUBTOTAL (2) ($) 144

**or number previously paid, if greater. For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee ($)	Small Entity Fee Code	Small Entity Fee ($)	Fee Description	Fee Paid
105	130	205	65	Surcharge – late filing fee or oath	
127	50	227	25	Surcharge – late Provisional filing	
139	130	139	130	Non-English specification	
147	2520	147	2520	For filing a request for ex parte Reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1840*	113	1840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	400	216	200	Extension for reply within second month	
117	920	217	460	Extension for reply within third month	
118	1440	218	720	Extension for reply within fourth month	
128	1960	228	980	Extension for reply within fifth month	
119	320	219	160	Notice of Appeal	
120	320	220	160	Filing a brief in support of an appeal	
121	280	221	140	Request for oral hearing	
138	1510	138	1510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1280	241	640	Petition to revive - unintentional	
142	1280	242	640	Utility issue fee (or reissue)	
143	460	243	230	Design issue fee	
144	620	244	310	Plant issue fee	
122	130	123	50	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of IDS	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40
146	740	246	370	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
179	740	279	370	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify)					

*Reduced by Basic Filing Fee Pd

SUBTOTAL (3) $ 40

SUBMITTED BY

Name (Print)	Randi L. Dulaney
Signature	Randi L. Dulaney

Complete (if applicable)

Registration No. (Attorney/Agent)	46,148
Telephone:	(954) 723-6449
Date	8/2/02

PATENT APPLICATION FEE DETERMINATION RECORD
Effective October 1, 2001

Application or Docket Number: CS212SSJP

CLAIMS AS FILED - PART I

	(Column 1)	(Column 2)
TOTAL CLAIMS	28	
FOR	NUMBER FILED	NUMBER EXTRA
TOTAL CHARGEABLE CLAIMS	28 minus 20=	* 8
INDEPENDENT CLAIMS	2 minus 3 =	*
MULTIPLE DEPENDENT CLAIM PRESENT		☐

* If the difference in column 1 is less than zero, enter "0" in column 2

SMALL ENTITY TYPE ☐		OR	OTHER THAN SMALL ENTITY	
RATE	FEE		RATE	FEE
BASIC FEE	370.00	OR	BASIC FEE	740.00
X$ 9=		OR	X$18=	144
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL		OR	TOTAL	884

CLAIMS AS AMENDED - PART II

AMENDMENT A

	(Column 1)		(Column 2)	(Column 3)
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

SMALL ENTITY		OR	OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

AMENDMENT B

	(Column 1)		(Column 2)	(Column 3)
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

AMENDMENT C

	(Column 1)		(Column 2)	(Column 3)
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
Total	*	Minus	**	=
Independent	*	Minus	***	=
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM				☐

RATE	ADDITIONAL FEE		RATE	ADDITIONAL FEE
X$ 9=		OR	X$18=	
X42=		OR	X84=	
+140=		OR	+280=	
TOTAL ADDIT. FEE		OR	TOTAL ADDIT. FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20."
***If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3."
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

DATE: 8/2/02
DOCKET NO.: CS21255UP

APPLICANT: FARIS, RANDI W.
SERIAL NO.:
FILING DATE::
ENTITLED: SYSTEM FOR CONTENT COMMUNICATION AND METHOD THEREFOR

ART UNIT:
EXAMINER:

U.S. PTO 10/211614 08/02/02

INFORMATION DISCLOSURE STATEMENT (IDS)

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.56 and in compliance with 37 C.F.R. §§ 1.97 and 1.98, the references listed on attached Form PTO/SB/08 and/or subsequently identified herein, are being submitted herewith for consideration by the United States Patent and Trademark Office.

I. COPIES

a. ☒ A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed, is included herewith.

b. ☐ Any patents, publications or other information which are listed on Form PTO/SB/08 which are not enclosed herewith were previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number	U.S. Filing Date

II. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

a. ☒ Except as may be indicated below in (b) of this section, all of the patents, publications or other information are in the English language (concise explanation not required).

b. ☐ A concise explanation of the relevance of all patents, publications or other information listed that is not in the English language is as follows:

c. ☐ The following additional information is provided for the Examiner's consideration:

III. ☐ CROSS REFERENCE TO RELATED APPLICATION(S)

The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this (these) applications to the Examiner's attention, Applicant(s) does(do) not waive the confidentiality provisions of 35 U.S.C. § 122.

U.S. Serial No.	U.S. Filing Date	Art Unit

FEES

IV. ☒ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(b): (check one box)

a. ☐ within three months of the filing date of a national application (37 C.F.R. § 1.97(b)(1)). No fee or statement is required.

b. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or statement is required.

c. ☒ before the mailing date of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or statement is required.

d. ☐ In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the statement under 37 C.F.R. § 1.97(e) provided below, or if no statement has been made, charge deposit account 50-0757 the fee set forth in 37 C.F.R. § 1.17(p).

V. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(c): (check one box)
before the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 (See 37 C.F.R. § 1.97(c)), or a Notice of Allowance under 37 C.F.R. § 1.311 (See 37 C.F.R. § 1.97(c)).

a. ☐ No statement; therefore, charge deposit account 50-0757 the fee set forth in 37 C.F.R. § 1.17(p).

b. ☐ See the statement below. No fee is required.

VI. ☐ THIS IDS IS BEING FILED UNDER 37 C.F.R. §1.97(d):
on or before payment of the issue fee and is accompanied by the following:

1) a statement under 37 C.F.R. § 1.97(e) as provided below;

2) Applicant(s) hereby a petition for consideration of this information disclosure statement; and

3) charge deposit account 50-0757 the petition fee set forth in § 1.17(i).

VII. Statement under 37 C.F.R. §1.97(e) (check only one box, if applicable)

The undersigned hereby states that:

a. ☐ each item of information contained in the IDS was cited in a communication from a foreign Patent Office is a counterpart foreign application not more than three months prior to the filing of IDS; or

b. ☐ no item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application, and to knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement, or

c. ☐ some of the items of information contained in the IDS were cited in a communication from a foreign Patent Office. As to this information, the undersigned states that each item of information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby states that no item of this remaining information contained in the IDS was cited in a communication from a foreign Patent Office in a counterpart foreign application or, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information

contained in the IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this statement.

VIII. PAYMENT OF FEES (check one box)

☐ A check in the amount of $_____ is enclosed for the above-identified fee(s).

☐ Please charge Deposit Account No. **50-0757** in the amount of $180.00 for the above-indicated fee(s).

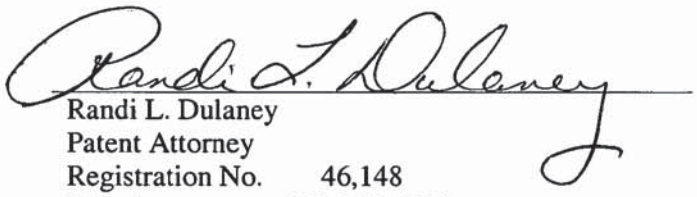
☒ If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account **50-0757**.

☐ Two Copies of this paper are attached for Deposit Account charges and debits.

It is Applicants' opinion that the claims presently on file patently distinguish the present invention from each of these references. The above references are being cited only in the interests of candor and without any admission that they constitute statutory prior art or contain matter which anticipates the invention or which would render the same obvious, either singly or in a combination, to a person or ordinary skill in the art.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. **50-0757.**

Respectfully submitted,



Randi L. Dulaney
Patent Attorney
Registration No. 46,148
Telephone: 954-723-6449
Facsimile: 954-723-5599

Motorola, Inc.
Customer No. 24273

Enclosures:
- ☒ PTO/SB/08
- ☒ References
- ☐ Foreign Search Report
- ☐ Other:

☐

Please type a plus sign (+) inside this box.

Substitute for form 1449A/PTO	*Complete if Known*	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application Number	
	Filing Date	
(use as many sheets as necessary)	First Named Inventor	RANDI W. FARIS
	Group Art Unit	
	Examiner Name	
Sheet 1 of	**Attorney Docket No.**	CS21255UP

1040 U.S. PTO 10/211614 08/02/02

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. [1]	U.S. Patent Document Number	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		5,504,476		Marrs et al.	4-2-96	
		5,705,995		Lafflin et al.	1-6-98	
		5,991,800		Burke et al.	11-23-99	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. [1]	Foreign Patent Document Office	Number [4]	Kind Code[2] (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Trans[6]

Examiner Signature		Date Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] citation designation number. [2]See Kinds of U.S. Patent Documents. [3]Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] panese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5]Kind of document by propriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English Language ation is attached.

PATENT APPLICATION SERIAL NO. _____

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
FEE RECORD SHEET

08/07/2002 EHAILE1 00000048 500757 10211614

01 FC:101 740.00 CH
02 FC:103 144.00 CH

PTO-1556
(5/87)

*U.S. Government Printing Office: 2001 — 481-697/59173

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	4799	709/217,225,226,229,231.ccls.	USPAT	OR	ON	2005/03/10 07:58
L2	251	l1 and (wireless or portable or pda or handheld or palmtop or mobile).ab.	USPAT	OR	ON	2005/03/10 08:09
L3	2	l2 and ((customized or custom) and web).ab.	USPAT	OR	ON	2005/03/10 07:59
L4	2	l2 and ((customized or custom) and (web or html)).ab.	USPAT	OR	ON	2005/03/10 08:00
L5	2	l2 and ((customized or custom) and (web or html or browser)).ab.	USPAT	OR	ON	2005/03/10 08:02
L6	2	l2 and (dynamic and (web or html or browser)).ab.	USPAT	OR	ON	2005/03/10 08:03
L7	2	l2 and ((customized or custom) and internet).ab.	USPAT	OR	ON	2005/03/10 08:02
L8	46	l2 and ((web or html or browser)).ab.	USPAT	OR	ON	2005/03/10 08:06
L9	5	l8 and (expiry or expiration)	USPAT	OR	ON	2005/03/10 08:08
L10	0	l8 and (valid adj4 period)	USPAT	OR	ON	2005/03/10 08:08
L11	8	l8 and (expire)	USPAT	OR	ON	2005/03/10 08:08
L12	5	l11 not l9	USPAT	OR	ON	2005/03/10 08:08
L13	11	((wireless or portable or pda or handheld or palmtop or mobile) and browser and custom$).ab.	USPAT	OR	ON	2005/03/10 09:07
L14	2	((wireless or portable or pda or handheld or palmtop or mobile) and browser and dynamic).ab.	USPAT	OR	ON	2005/03/10 08:13
L15	0	((wireless or portable or pda or handheld or palmtop or mobile) and browser and region).ab.	USPAT	OR	ON	2005/03/10 08:13
L16	6	((wireless or portable or pda or handheld or palmtop or mobile) and browser and attribute).ab.	USPAT	OR	ON	2005/03/10 08:23
L17	2	"6470381".pn. or "6826614".pn.	USPAT	OR	ON	2005/03/10 09:04
L18	6	"6470381".pn. or "6202023".pn. or "6295502".pn. or "6363419".pn. or "6731612".pn. or "6775291".pn.	USPAT	OR	ON	2005/03/10 09:05
L19	0	l18 and (text adj color)	USPAT	OR	ON	2005/03/10 09:06
L20	0	l18 and (text adj2 color)	USPAT	OR	ON	2005/03/10 09:05
L21	0	l18 and (color adj text)	USPAT	OR	ON	2005/03/10 09:06
L22	0	l18 and (color adj3 text)	USPAT	OR	ON	2005/03/10 09:06
L23	0	l18 and (background adj color)	USPAT	OR	ON	2005/03/10 09:06
L24	0	l18 and (background adj2 color)	USPAT	OR	ON	2005/03/10 09:06
L25	0	l18 and (color adj2 background)	USPAT	OR	ON	2005/03/10 09:06

L26	101	((wireless or portable or pda or handheld or palmtop or mobile) and browser).ab.	USPAT	OR	ON	2005/03/10 09:09
L27	0	l26 and ((text adj color) and (background adj color))	USPAT	OR	ON	2005/03/10 09:07
L28	0	l26 and ((text adj3 color) and (background adj3 color))	USPAT	OR	ON	2005/03/10 09:08
L29	1	l26 and ((text adj3 color))	USPAT	OR	ON	2005/03/10 09:10
L30	2	l26 and ((background adj3 color))	USPAT	OR	ON	2005/03/10 09:09
L31	3	l29 or l3	USPAT	OR	ON	2005/03/10 09:08
L32	597	((wireless or portable or pda or handheld or palmtop or mobile) and internet).ab.	USPAT	OR	ON	2005/03/10 09:09
L33	4	l32 and ((background adj3 color))	USPAT	OR	ON	2005/03/10 09:09
L34	3	l32 and ((text adj3 color))	USPAT	OR	ON	2005/03/10 09:10
L35	5	l33 or l34	USPAT	OR	ON	2005/03/10 09:10

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Please find below and/or attached an Office communication concerning this application or proceeding.