US007260381B2

(12) **United States Patent** (10) Patent No.: **US 7,260,381 B2**
Lipsit (45) Date of Patent: ***Aug. 21, 2007**

(54) **METHOD AND APPARATUS FOR STORING ACTIVATION DATA IN A CELLULAR TELEPHONE**

(75) Inventor: **James Mason Lipsit**, Lake Worth, FL (US)

(73) Assignee: **Cingular Wireless II, LLC**, Atlanta, GA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 493 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **10/805,247**

(22) Filed: **Mar. 22, 2004**

(65) **Prior Publication Data**

US 2004/0176133 A1   Sep. 9, 2004

Related U.S. Application Data

(63) Continuation of application No. 09/924,613, filed on Aug. 9, 2001, now Pat. No. 6,748,209, which is a continuation of application No. 09/219,872, filed on Dec. 24, 1998, now Pat. No. 6,650,893, which is a continuation of application No. 08/901,827, filed on Jul. 28, 1997, now Pat. No. 5,974,311, which is a continuation of application No. 08/550,274, filed on Oct. 30, 1995, now abandoned.

(51) **Int. Cl.**
 H04M 3/16 (2006.01)
 H04M 3/00 (2006.01)
 H04M 1/00 (2006.01)
(52) **U.S. Cl.** **455/411**; 455/418; 455/419
(58) **Field of Classification Search** 455/419, 455/418, 411
 See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,764,915 A   10/1973   Cox et al.

(Continued)

FOREIGN PATENT DOCUMENTS

EP   9210658.2   11/1992

(Continued)

OTHER PUBLICATIONS

"BCC's Revolutionary New Device Simplifies Cellular Phone Programming," Cellular Today, Aug. 7, 1995.
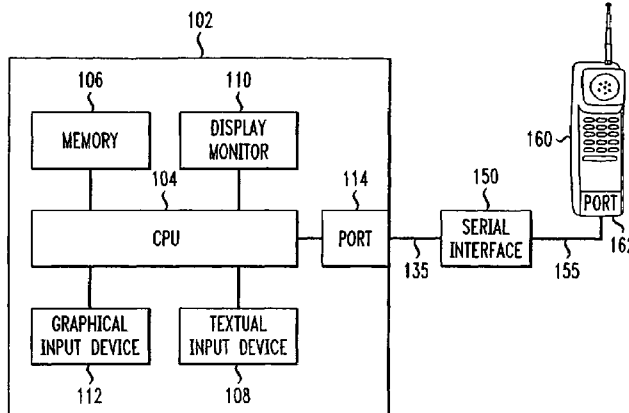
(Continued)

Primary Examiner—William D. Cumming
(74) *Attorney, Agent, or Firm*—Kenyon & Kenyon LLP

(57) **ABSTRACT**

A method and apparatus for programming a cellular telephone with activation parameters. A cellular telephone to be programmed is connected to a computer via a communications interface. A user input device is provided to allow a user to provide programming information, including a cellular telephone type, to the computer. A visual representation of the cellular telephone type is displayed on a display monitor to allow the user to interactively verity the inputted programming information. Upon such user verification, the computer determines activation parameters and transmits the activation parameters to the cellular telephone. In accordance with another aspect of the invention, certain activation parameters are dynamically computed based on the user provided programming information In one embodiment, the user enters a cellular telephone number to be assigned to the cellular telephone. The computer looks up a system identification associated with the cellular telephone number in a memory unit. Certain activation parameters are dynamically computed based on the cellular telephone number and system identification.

13 Claims, 4 Drawing Sheets

U.S. PATENT DOCUMENTS

4,525,865 A	6/1985	Mears	
4,864,599 A	9/1989	Saegusa	
4,951,308 A	8/1990	Bishop	
5,031,204 A	7/1991	McKernan	
5,046,082 A	9/1991	Zicker	
5,086,513 A	2/1992	Lawrence et al.	455/186.1
5,109,403 A	4/1992	Sutphin	
5,155,860 A	10/1992	McClure	
5,220,593 A	6/1993	Zicker et al.	
5,249,218 A	9/1993	Sainton	
5,276,729 A	1/1994	Higuchi et al.	
5,297,191 A	3/1994	Gerszberg	
5,297,192 A	3/1994	Gerszberg	
5,301,223 A	4/1994	Amadon et al.	
5,315,638 A	5/1994	Mukari	
5,325,418 A	6/1994	McGregor et al.	
5,349,697 A	9/1994	Pelkonen	
5,367,563 A	11/1994	Sainton	
5,381,346 A	1/1995	Monaham-Mitchell et al.	
5,386,455 A	1/1995	Cooper	
5,400,389 A	3/1995	Niiyama et al.	
5,414,751 A	5/1995	Yamada	
5,414,753 A	5/1995	Ehara	
5,418,837 A	5/1995	Johansson	
5,465,288 A	11/1995	Falvey et al.	455/418
5,485,505 A	1/1996	Norman et al.	
5,487,108 A	1/1996	Atkins et al.	
5,491,740 A	2/1996	Ellis et al.	379/358
5,495,518 A	2/1996	Hayashi	
5,500,888 A	3/1996	Chiu et al.	
5,530,745 A	6/1996	Urasaka et al.	
5,555,286 A	9/1996	Tendler	
5,566,226 A	10/1996	Mizoguchi et al.	
5,568,536 A	10/1996	Tiller et al.	
5,572,571 A	11/1996	Shirai	
5,577,100 A	11/1996	McGregor et al.	
5,583,933 A	12/1996	Mark	
5,588,042 A	12/1996	Comer	
5,590,373 A	12/1996	Whitley et al.	
5,592,535 A	1/1997	Klontz	
5,603,084 A	2/1997	Henry, Jr. et al.	455/186.1
5,606,597 A	2/1997	Newland	379/355
5,610,973 A	3/1997	Comer	
5,625,669 A	4/1997	McGregor et al.	
5,628,055 A	5/1997	Stein	
5,631,947 A	5/1997	Wittstein et al.	
5,657,371 A	8/1997	Suomi et al.	
5,673,306 A	9/1997	Amadon et al.	
5,684,861 A	11/1997	Lewis et al.	
5,722,084 A	2/1998	Chakrin et al.	455/551
5,761,618 A	6/1998	Lynch et al.	455/419
5,812,953 A	9/1998	Griffith et al.	455/550
5,854,978 A	12/1998	Heidari	455/403
5,887,249 A	3/1999	Schmid	455/411
5,887,254 A	3/1999	Halonen	455/419
5,974,311 A	10/1999	Lipsit	455/418
6,026,293 A	2/2000	Osborn	455/411
6,178,324 B1	1/2001	Choquet et al.	455/422
6,178,336 B1	1/2001	Crozat	455/558
6,195,546 B1	2/2001	Leung et al.	455/419
6,243,574 B1	6/2001	McGregor et al.	455/418
6,650,893 B1 *	11/2003	Lipsit	455/419
6,748,209 B2 *	6/2004	Lipsit	455/411

FOREIGN PATENT DOCUMENTS

GB	2 249 459 A	5/1992
GB	2 249 923 A	5/1992
WO	94/05289	6/1995

OTHER PUBLICATIONS

"Shifting Cellular Distribution Patterns: A Call for Change," *C-TAC Cellular Telephone Activation Center*, ORA Electronics, 1994.
Lurie Silberg, "ORA System to Speed Cellular Activation," HFD, Apr. 11, 1994, p. 148.
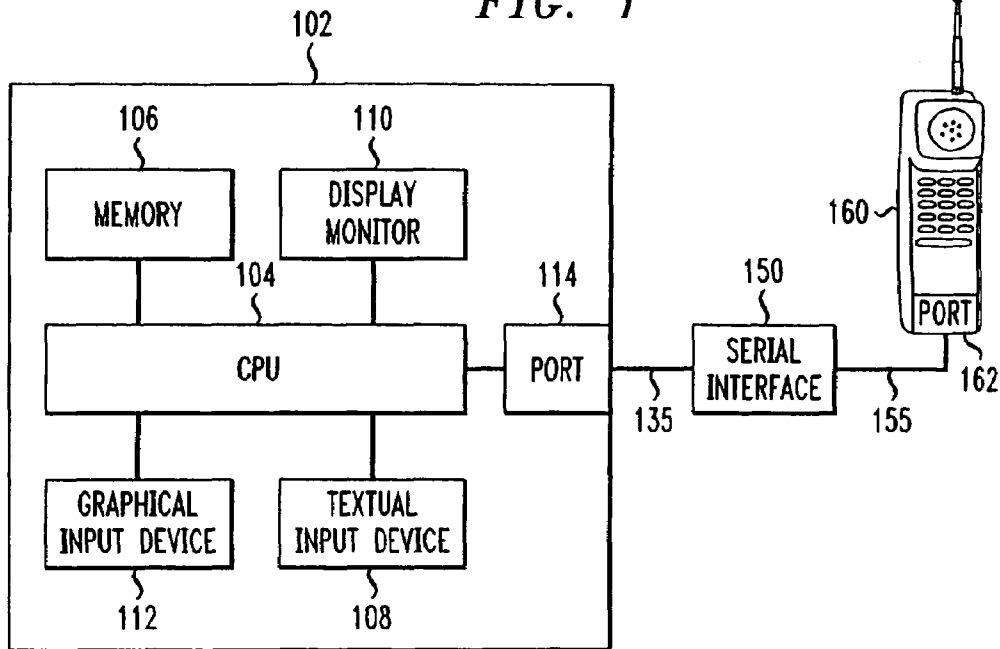
* cited by examiner

FIG. 1

102

106

110

| MEMORY | | DISPLAY MONITOR |

104

114

150

160

| CPU | | PORT |

PORT

SERIAL INTERFACE

162

135   155

| GRAPHICAL INPUT DEVICE | | TEXTUAL INPUT DEVICE |

112   108

FIG. 2   200

210   220   230

AREA CODE + PREFIX	SYSTEM ID	LOCATION
(407)-346	00037	WEST PALM BEACH FL
(407)-353	00175	ORLANDO FL
(407)-371	00037	WEST PALM BEACH FL
(407)-373	00037	WEST PALM BEACH FL
(407)-374	00037	BOYNTON BEACH FL
(407)-379	00037	WEST PALM BEACH FL
(407)-399	00175	ORLANDO FL
(407)-421	00175	ORLANDO FL

240

START ~ 300

USER ENTERS TELEPHONE TYPE ~ 302

RETRIEVE A GRAPHICS FILE STORED IN MEMORY ~ 303

DISPLAY PICTURE OF SELECTED PHONE TYPE ~ 304

DISPLAY INSTRUCTIONS FOR SELECTED PHONE TYPE ~ 306

USER ENTERS CELLULAR TELEPHONE NUMBER ~ 308

USER INITIATES PROGRAMMING ~ 310

LOOK UP SYSTEM ID IN SYSTEM IDENTIFICATION DATA TABLE ~ 312

DISPLAY SYSTEM ID AND LOCATION ~ 314

READ ELECTRONIC SERIAL NUMBER FROM TELEPHONE ~ 316

DISPLAY ELECTRONIC SERIAL NUMBER ~ 318

READ SOFTWARE VERSION FROM TELEPHONE ~ 320

DISPLAY SOFTWARE VERSION ~ 322

CALCULATE REMAINING NAM PARAMETERS ~ 324

A

FIG. 3A

FIG. 3B

FROM FIG. 3A

(A)

PROGRAM TELEPHONE — 326

CHECK FOR SUCCESSFUL PROGRAMMING — 328

DISPLAY PROGRAMMING STATUS — 330

UPDATE PROGRAMMING LOG — 332
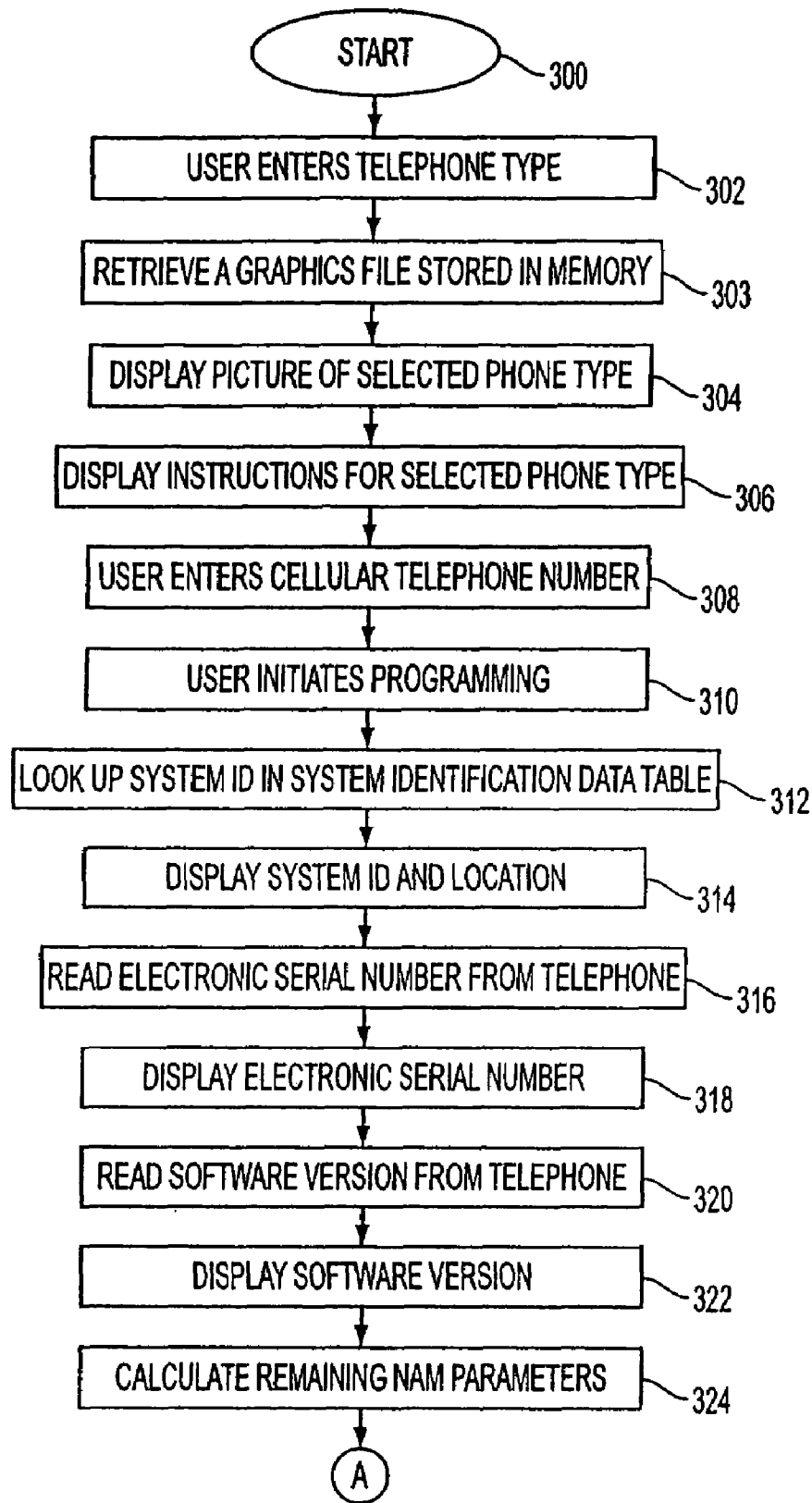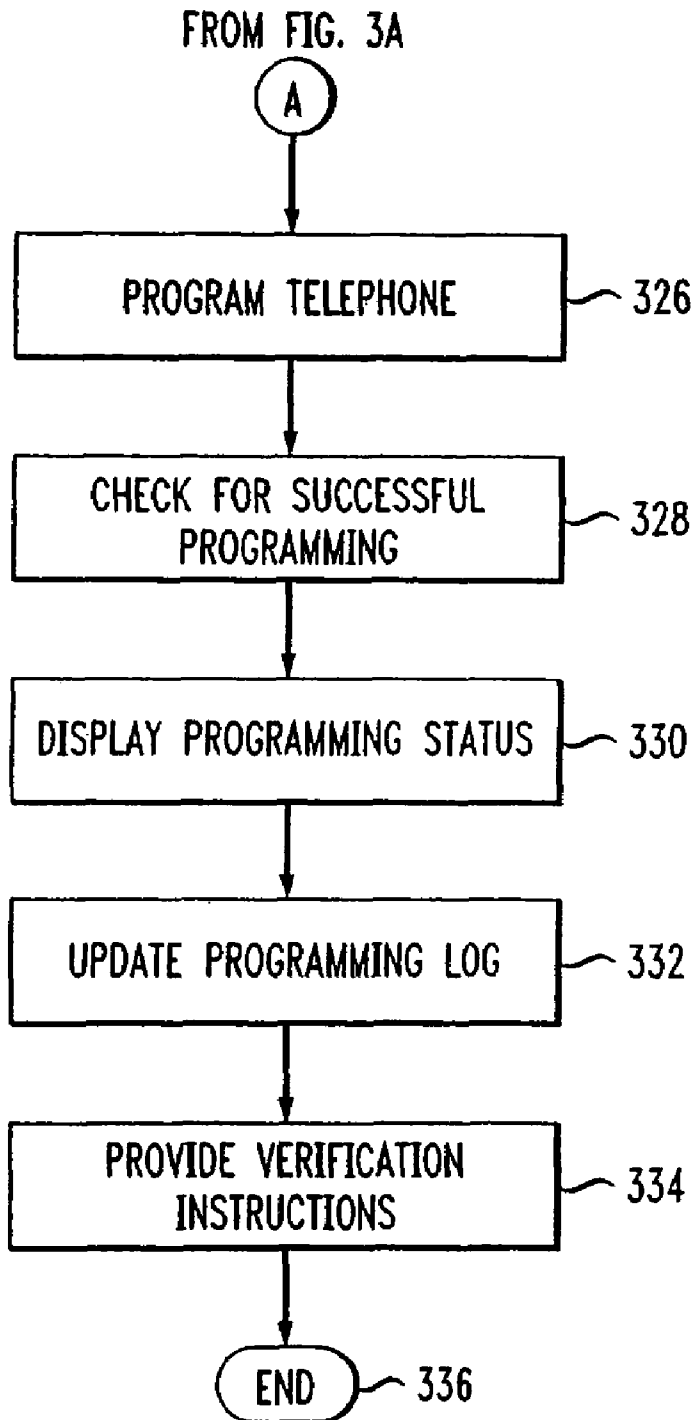
PROVIDE VERIFICATION INSTRUCTIONS — 334

END — 336

DOCKET ALARM

Explore Litigation Insights

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

Real-Time Litigation Alerts

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

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

Advanced Docket Research

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

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

Analytics At Your Fingertips

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

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

API

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

LAW FIRMS

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

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

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.