



US007155163B2

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

(10) **Patent No.:** **US 7,155,163 B2**
(45) **Date of Patent:** **Dec. 26, 2006**

(54) **UNIFIED PASSCODE PAIRING OF PICONET DEVICES**

2003/0036350 A1* 2/2003 Jonsson et al. 455/41

FOREIGN PATENT DOCUMENTS

(75) Inventors: **Joseph M. Cannon**, Harleysville, PA (US); **Jonathan H. Fischer**, Longmont, CO (US); **John P. Veschi**, Fogelsville, PA (US)

WO WO94/05101 * 3/1994

OTHER PUBLICATIONS

(73) Assignee: **Agere Systems Inc.**, Allentown, PA (US)

Bluetooth Specification Version 1.0B, Profiles, Bluetooth SIG, Dec. 1, 1999, pp. 37-44.*

Bluetooth Specification Version 1.0 B, pp. 143-162, Nov. 29, 1999.

* cited by examiner

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 744 days.

Primary Examiner—Charles R. Craver

(57) **ABSTRACT**

(21) Appl. No.: **09/756,106**

The present invention relates to an application layer function outside the BLUETOOTH protocol which associates a BLUETOOTH unique address, i.e., the 48-bit unique BD_ADDR address, with a short passcode or PIN which is associated with a particular type of BLUETOOTH device in a particular piconet. The passcode or PIN can be predetermined by the manufacturer of the BLUETOOTH device, or can be input and defined by the user. Upon installation in a piconet, in one embodiment shown and described with reference to FIGS. 1 and 2, a user can be asked to manually input a particular passcode or PIN into a relevant piconet device, and an inquiry can be broadcast to all communicating piconet devices and only those other piconet devices having a matching passcode or PIN associated therewith can automatically forward their respective 48-bit unique BD_ADDR addresses to the inquiring piconet device. Alternatively, a user can inquire and be provided with a list of available passcodes or PINs already established by other devices in the piconet, and select a particular passcode or PIN associated with one or more other piconet devices. The passcode or personal identification number (PIN) may be input upon electronic device setup (e.g., a four character code). The passcode or PIN may be numeric, text, or alphanumeric.

(22) Filed: **Jan. 9, 2001**

(65) **Prior Publication Data**

US 2002/0090912 A1 Jul. 11, 2002

(51) **Int. Cl.**
H04B 7/00 (2006.01)

(52) **U.S. Cl.** **455/41.2; 455/420; 455/466; 455/456.6; 455/90.1**

(58) **Field of Classification Search** **455/426.1, 455/41.1-41.3, 426.2, 466, 518, 519, 520**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,289,218	B1*	9/2001	Liu	.....	455/426
6,366,622	B1*	4/2002	Brown et al.	.....	375/322
6,484,027	B1*	11/2002	Mauney et al.	.....	455/421
6,571,103	B1*	5/2003	Novakov	.....	455/464
6,631,271	B1*	10/2003	Logan	.....	455/456.1
6,640,098	B1*	10/2003	Roundtree	.....	455/414.2
6,697,638	B1*	2/2004	Larsson et al.	.....	455/553.1
6,718,395	B1*	4/2004	Ziegler	.....	709/248
2002/0065041	A1*	5/2002	Lunsford et al.	.....	455/41

14 Claims, 6 Drawing Sheets

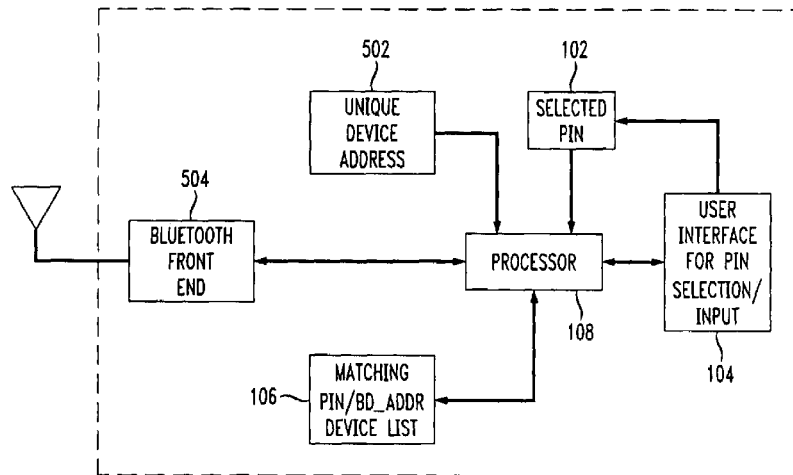


FIG. 1

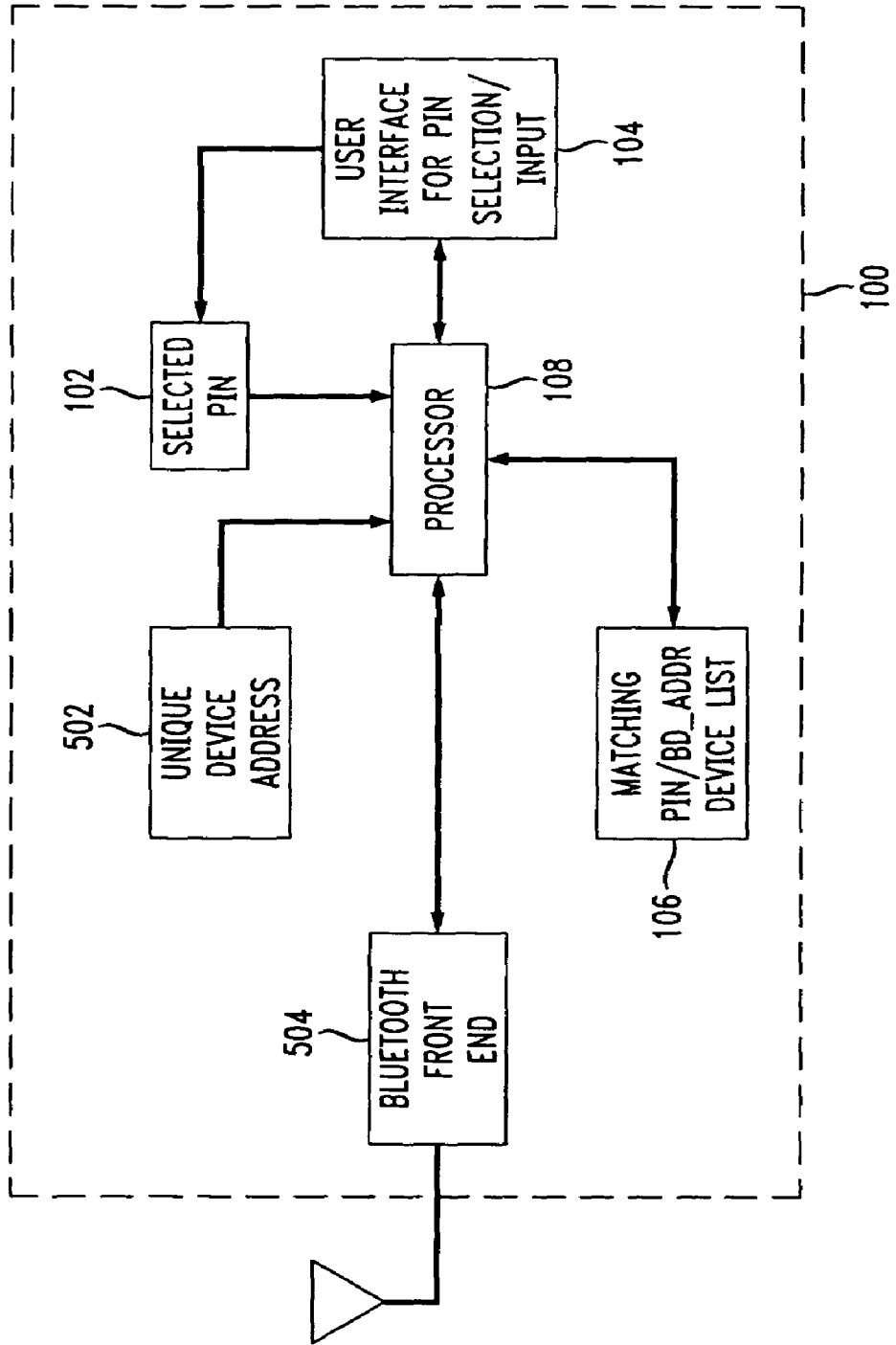


FIG. 2

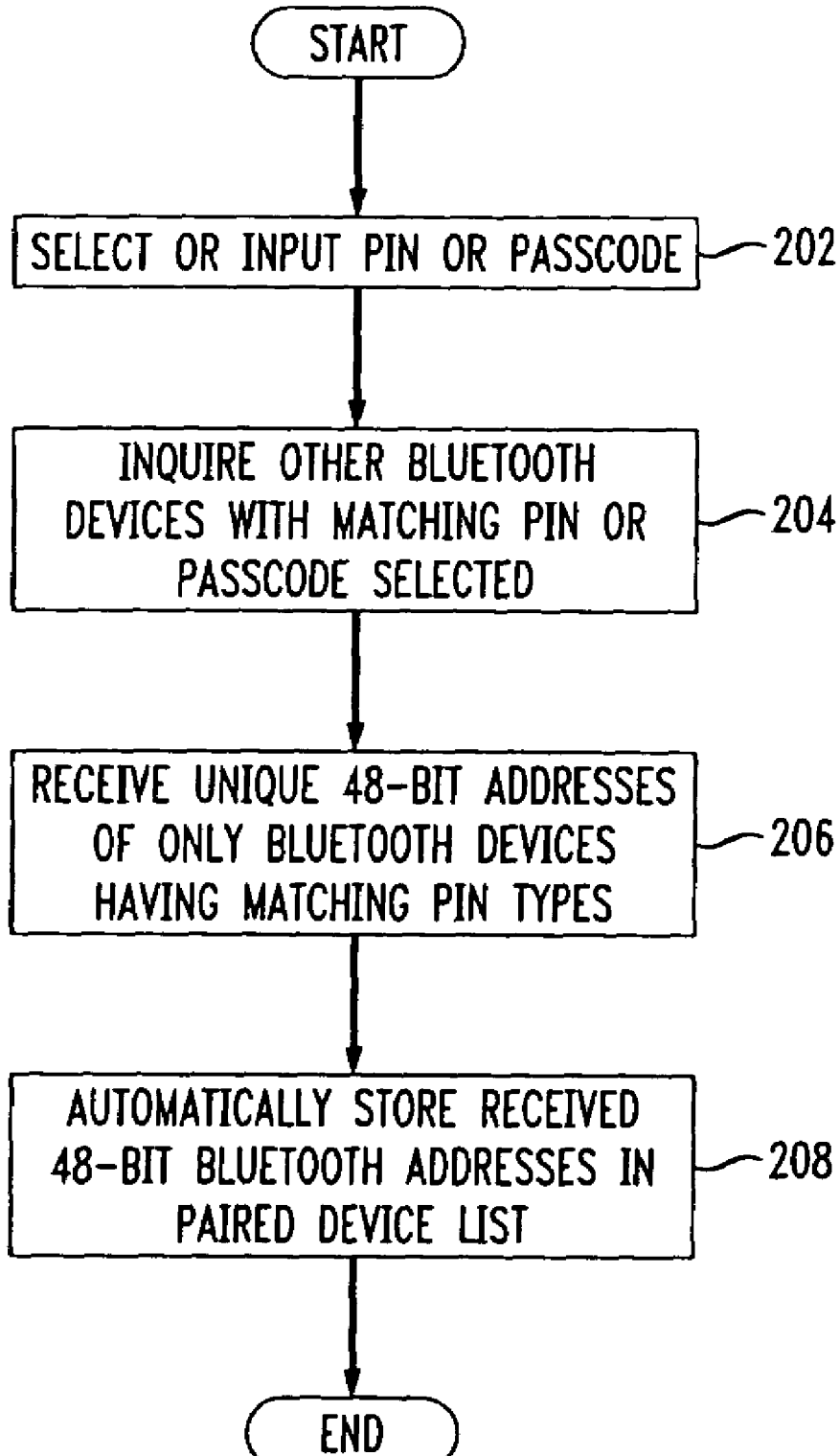


FIG. 3

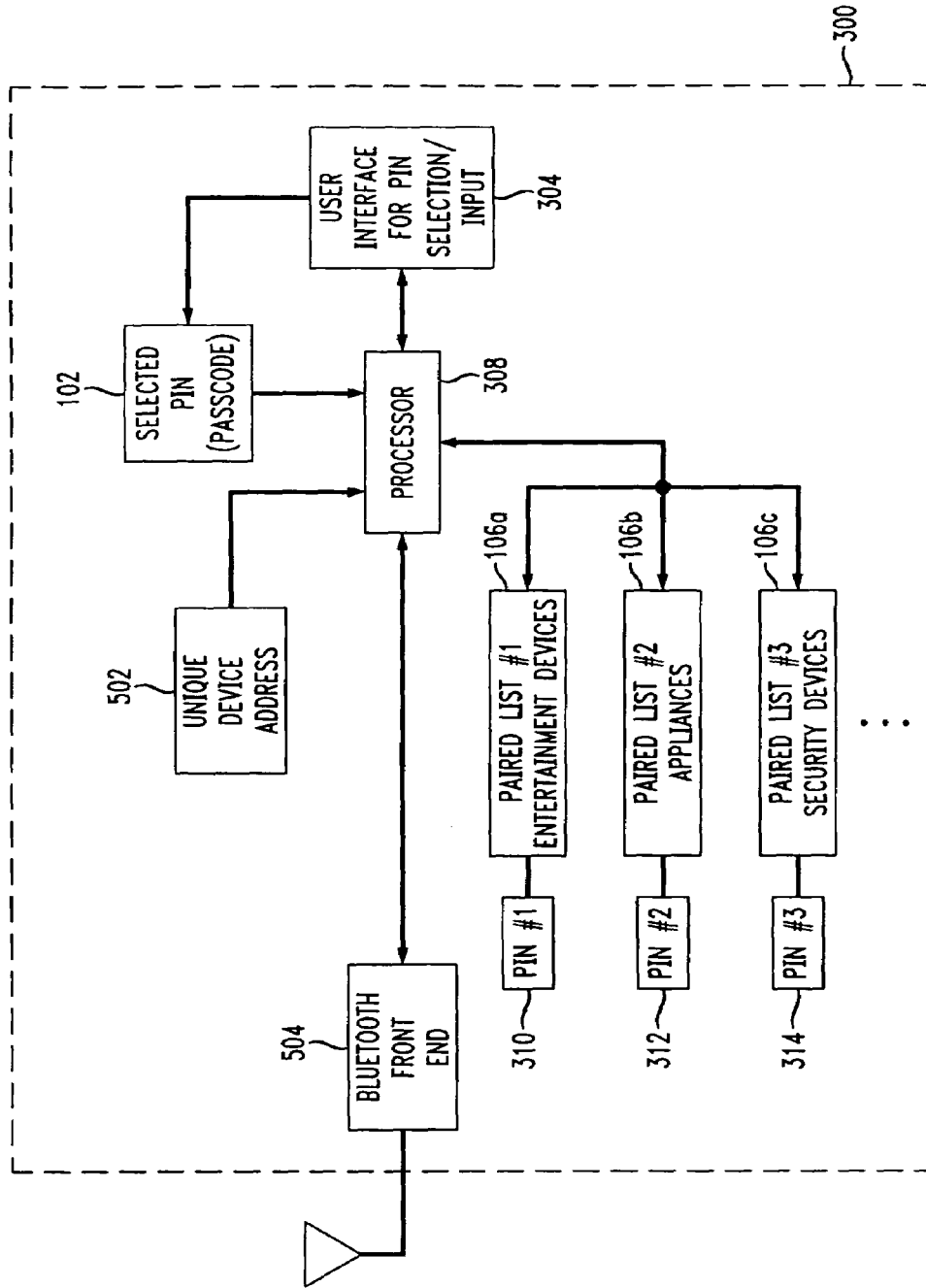
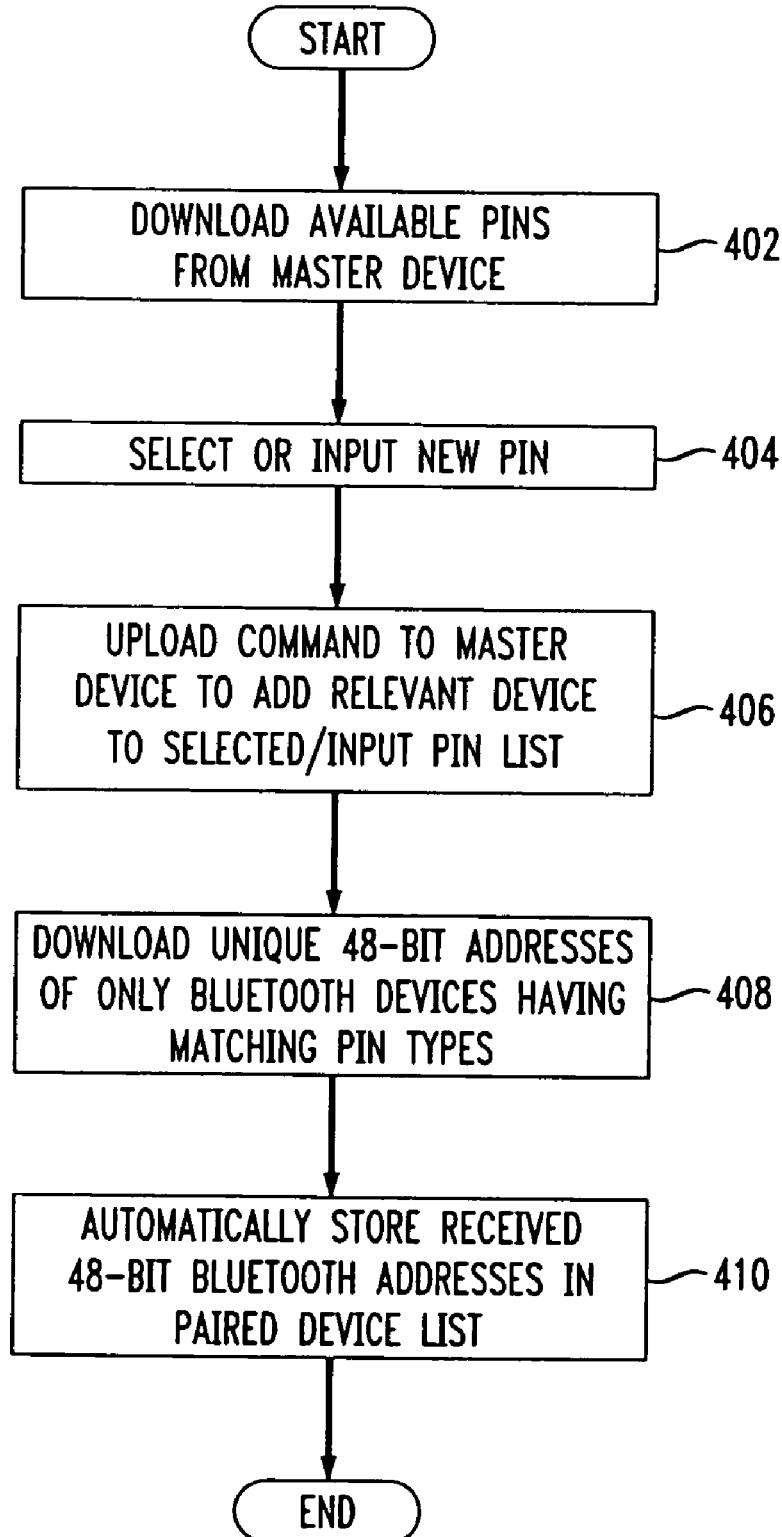


FIG. 4



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.