

US006993134B1

(12) United States Patent

Epstein

(54) KEY EXCHANGE VIA A PORTABLE REMOTE CONTROL DEVICE

- (75) Inventor: Michael A. Epstein, Spring Valley, NY (US)
- (73) Assignce: Koninklijke Philips Electronics N.V., Eindhoven (NL)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 09/370,488
- (22) Filed: Aug. 9, 1999
- (51) Int. Cl. *H04L 9/00* (2006.01)

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,905,279 A * 2/1990 Nishio 455/352

(10) Patent No.: US 6,993,134 B1 (45) Date of Patent: Jan. 31, 2006

(45) Date of Patent: Jan. 51, 2000

5,028,919 A *	7/1991	Hidaka 340/825.72
5,371,794 A *	12/1994	Diffie et al 380/21
5,886,753 A *	3/1999	Shinyagaito 348/734

OTHER PUBLICATIONS

Bruce Schneier: Applied Cryptography 2nd Edition, Oct. 1995, John Wiley & Sons Pub., pp. 518-520.*

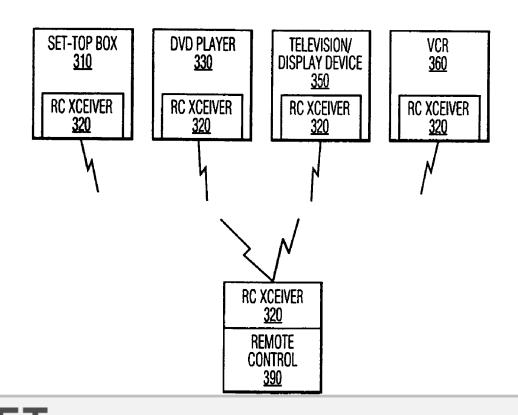
* cited by examiner

Primary Examiner—Emmanuel L. Moise Assistant Examiner—Paul E. Callahan

(57) ABSTRACT

The communications means that are commonly provided for the remote control of electronic components are utilized to effect an exchange of parameters to facilitate a cryptographic key exchange. The bidirectional remote control transceivers, typically infrared transceivers, that are commonly used to communicate commands from the remote control device and to communicate feedback to the remote control device are configured to communicate parameters between a pair of consumer devices that are controllable by the remote control device. In a preferred embodiment of this invention the remote control device contains the control means to effect the transfer of these parameters between the consumer devices.

8 Claims, 4 Drawing Sheets



R M Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

Α

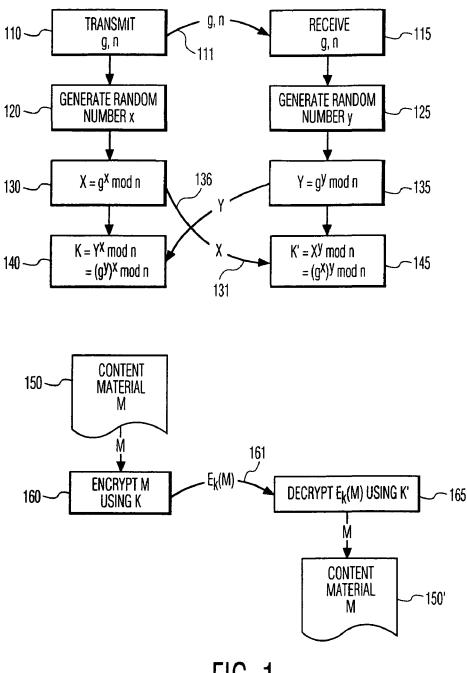
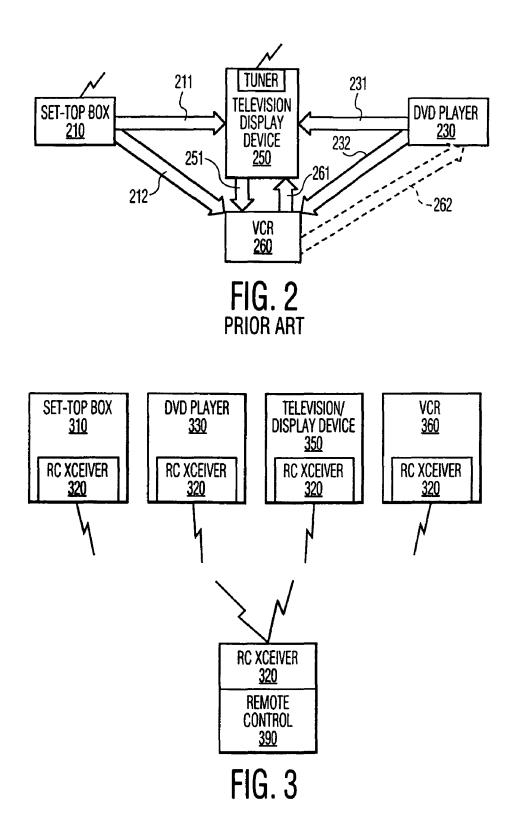


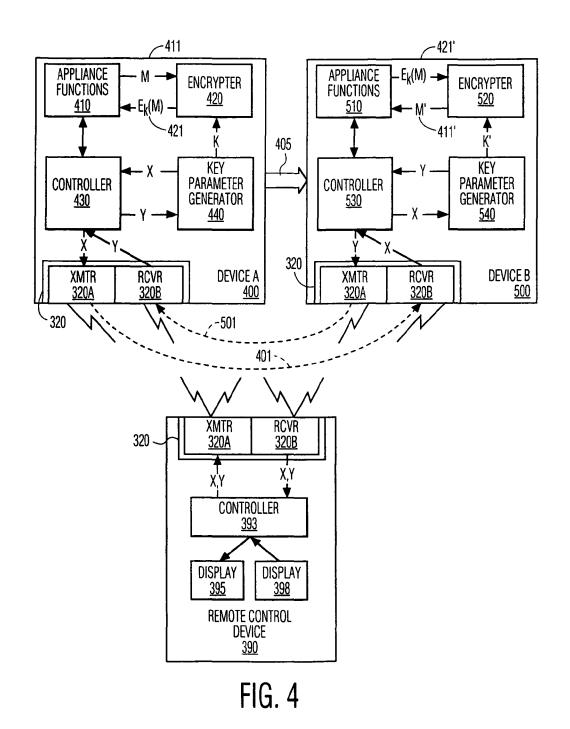
FIG. 1 PRIOR ART

CKET LARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.

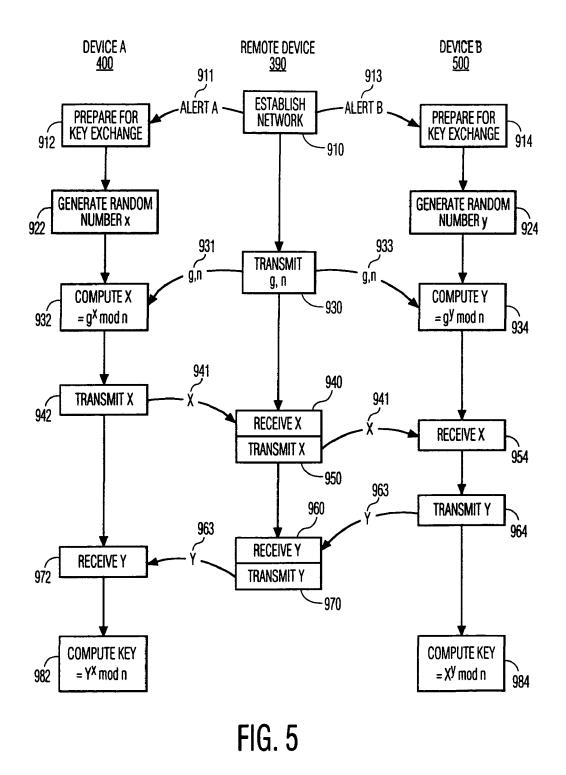
Α



CKET LARM Find authenticated court documents without watermarks at <u>docketalarm.com</u>.



Α



DOCKET A L A R M



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.