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## (12) United States Patent Epstein

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## (54) KEY EXCHANGE VIA A PORTABLE REMOTE CONTROL DEVICE

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U.S.C. 154(b) by 0 days.

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- (22) Filed: Aug. 9, 1999
- (51) Int. Cl.

**H04L 9/00** (2006.01)

348/14.05

See application file for complete search history.

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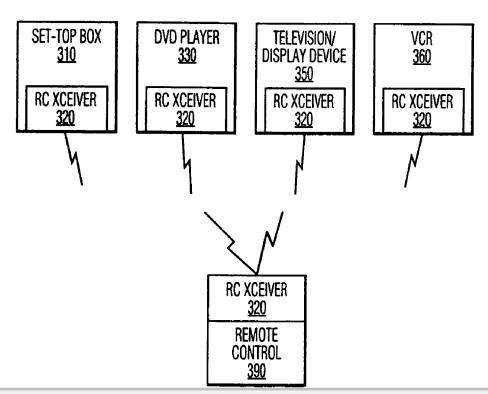
\* cited by examiner

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

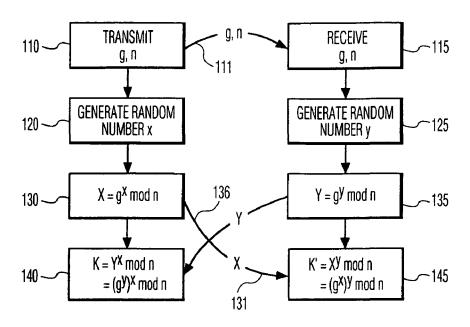
(57) ABSTRACT

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







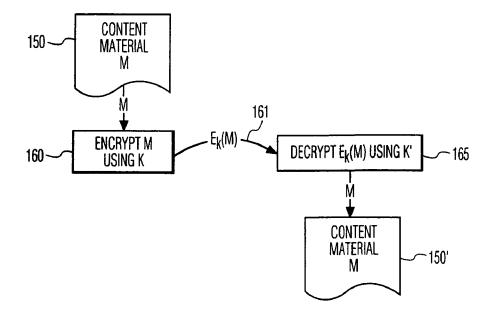
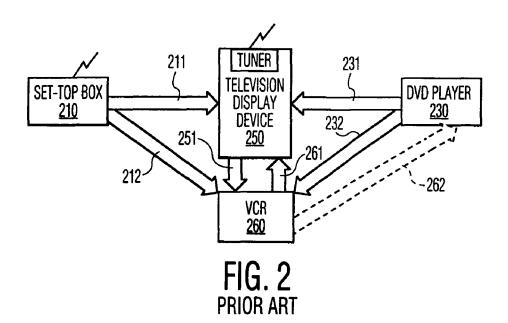
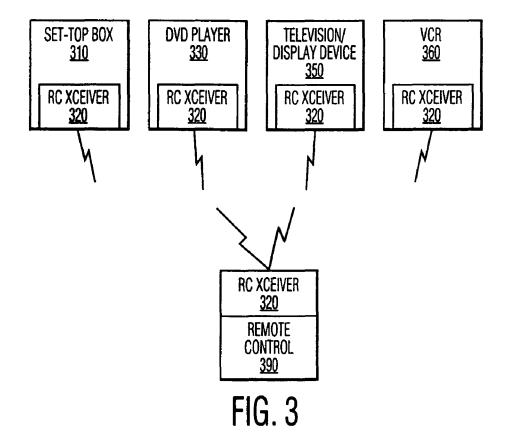


FIG. 1 PRIOR ART









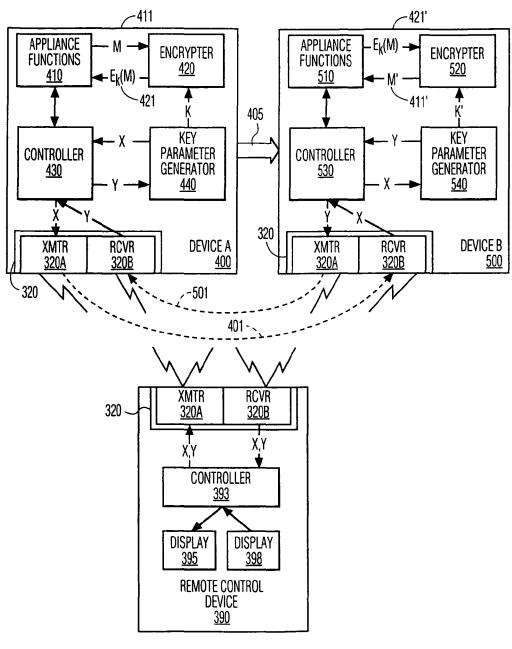


FIG. 4

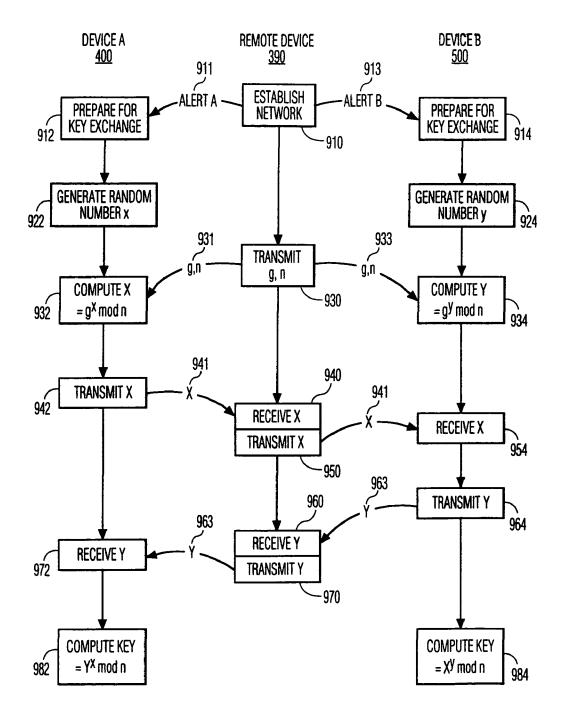


FIG. 5



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