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### (12) United States Patent

### Epstein

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

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- (\*) 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
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- (51) Int. Cl. *H04L 9/00* (2006.01)

See application file for complete search history.

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

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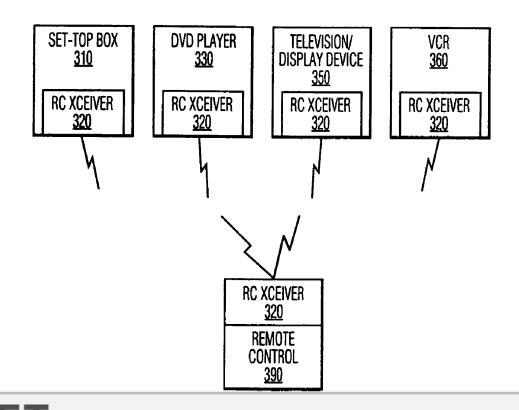
\* cited by examiner

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

#### (57) ABSTRACT

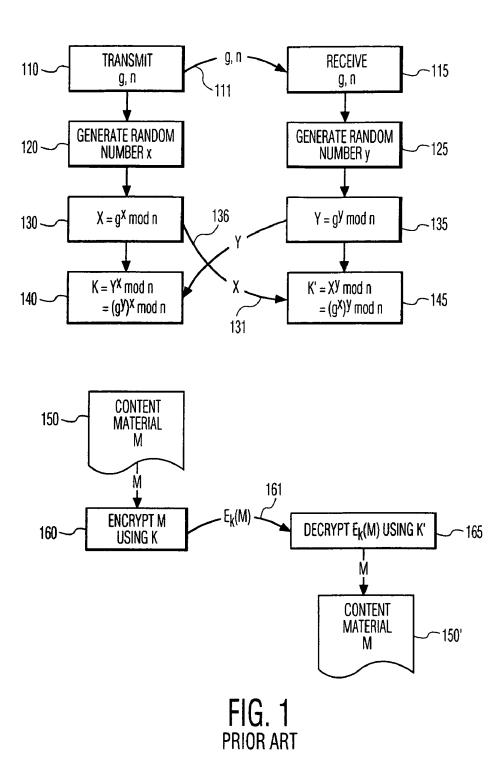
The communications means that are commonly provided for the remote control of electronic components are utilized to effect an exchange of parameters to facilitate a cryptographic key exchange. The bidirectional remote control transceivers, typically infrared transceivers, that are commonly used to communicate 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

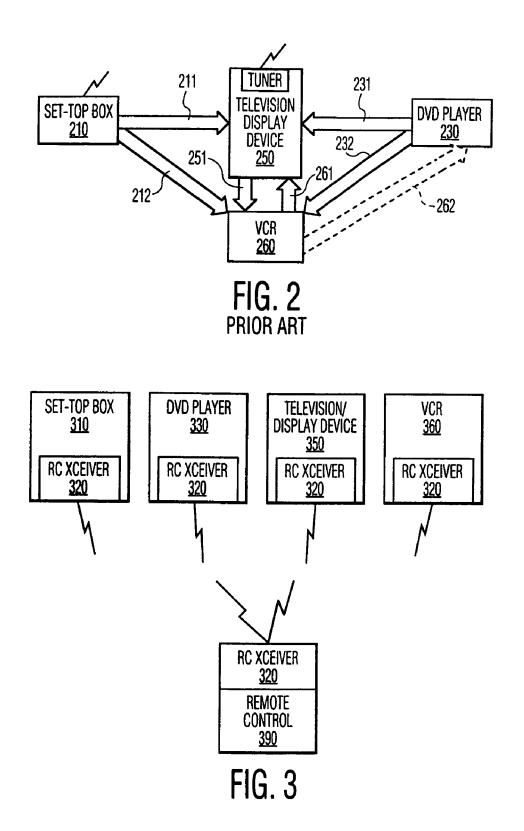


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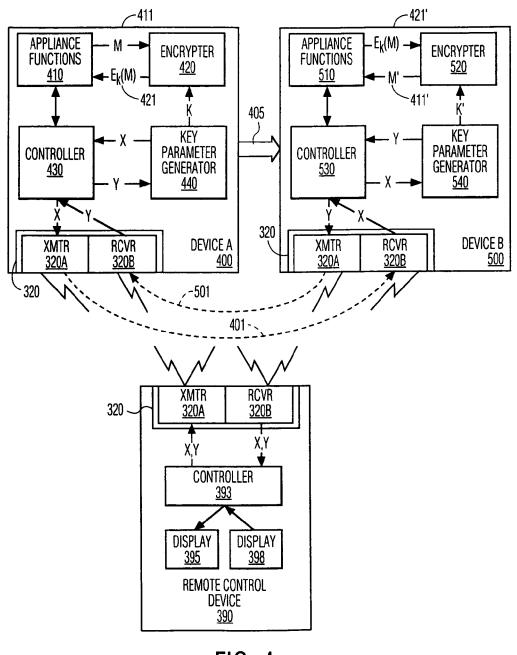
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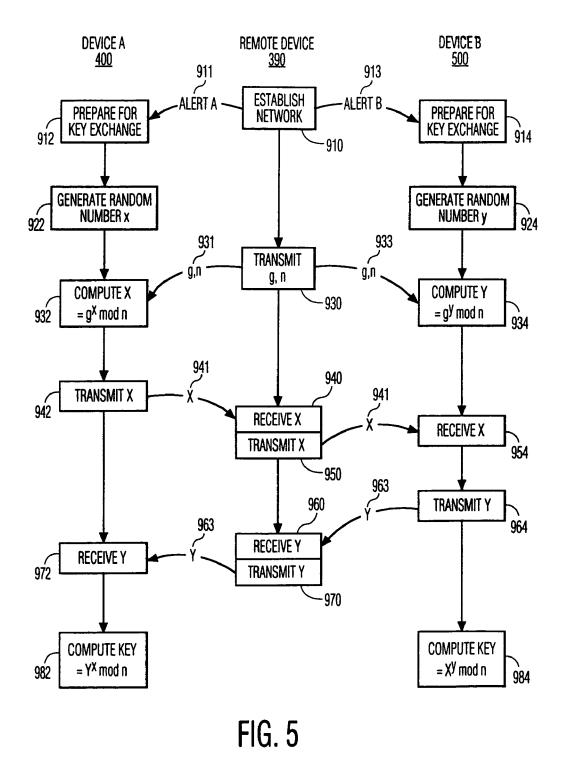
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