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United States Patent [19]

Bruwer

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[54] **SECURE SELF LEARNING SYSTEM**

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Related U.S. Application Data

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[51] **Int. Cl.**[7] **H04Q 9/00**

[52] **U.S. Cl.** **340/825.31**; 340/825.22; 340/825.69; 340/426; 380/262

[58] **Field of Search** 340/825.31, 825.22, 340/825.69, 825.72, 426; 380/21, 23, 262, 274; 341/176

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[57] **ABSTRACT**

A method and system for the remote control of devices having a secure self learn capability. The system includes an encoder and a decoder, the encoder encoding variable information including a user key using a non-linear algorithm to produce an encoded value transmitted to the decoder, the decoder decoding the value using the same algorithm. In a learning mode a new encoder is to be added to the system. The new encoder produces an encoded value using a key generation seed. The decoder, upon receiving the encoded key generation seed, produces a decoding key based upon the decoded key generation seed. The decoding key is stored in the decoder memory allowing valid recognition of the new encoder in a secure manner.

3 Claims, 7 Drawing Sheets

