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# (12) United States Patent

#### Pesonen

#### (54) METHOD FOR ISSUER AND CHIP SPECIFIC DIVERSIFICATION

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- (73) Assignee: Nokia Corporation, Espoo (FI)
- (\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 670 days.
- (21) Appl. No.: 11/264,139
- (22) Filed: Nov. 2, 2005

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- (51) Int. Cl. *G06K 19/06*

(2006.01)

(58) **Field of Classification Search** 235/492, 235/472.02, 487; 713/168, 169, 172, 173; 455/410, 411, 418, 419

See application file for complete search history.

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### (10) Patent No.: US 7,699,233 B2

## (45) **Date of Patent:** Apr. 20, 2010

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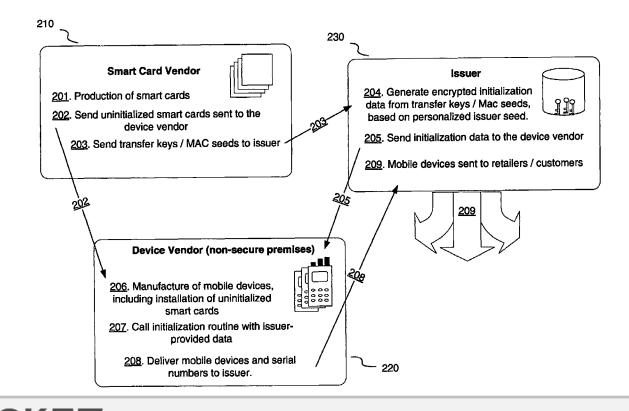
Primary Examiner—Kumiko C Koyama

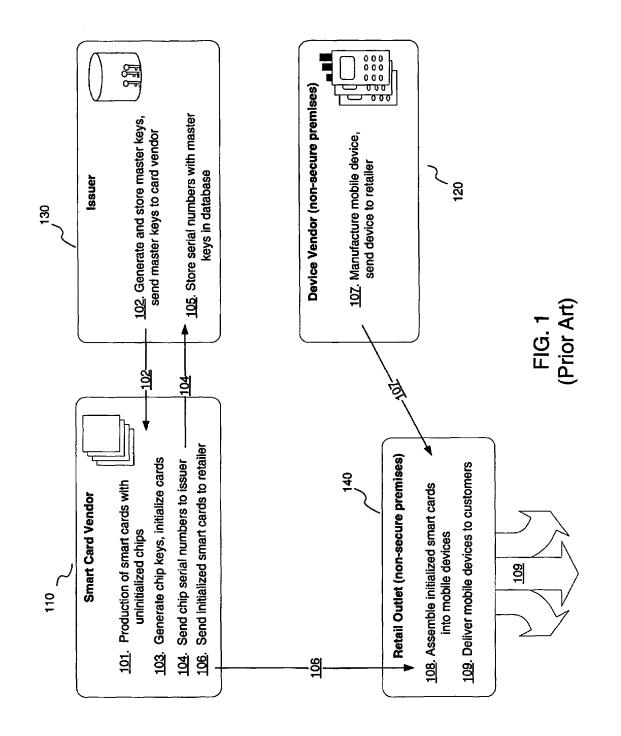
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#### (57) ABSTRACT

A system and method for initializing secure elements for use in mobile devices. A mobile device manufacturer embeds uninitialized secure elements into mobile devices. An issuerspecific seed value is securely passed into an initialization routine in the operating system of the secure element. The initialization routine diversifies the initial root keys on the secure element with the issuer seed and the unique chip serial number to create master and chip keys for use in secure communications between the issuer and the mobile device user.

#### 45 Claims, 7 Drawing Sheets





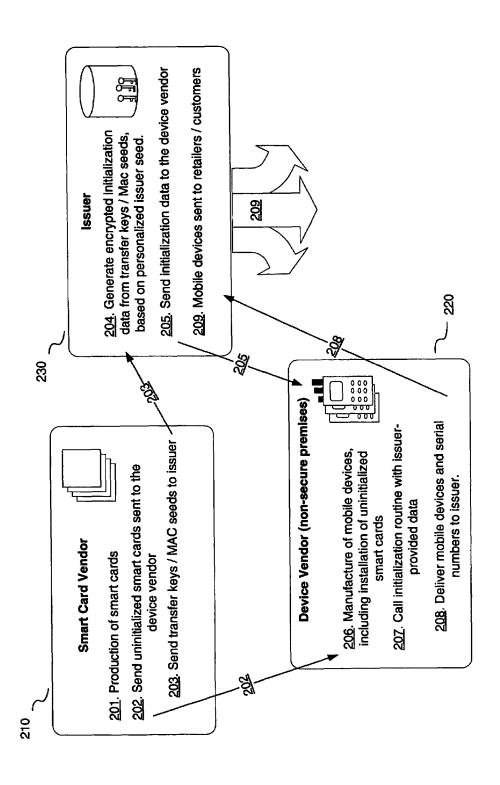


FIG. 2

DOCKET

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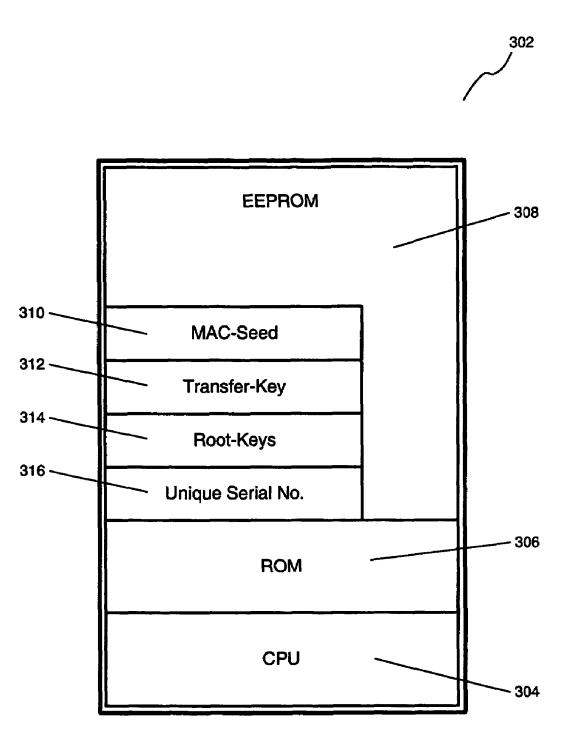
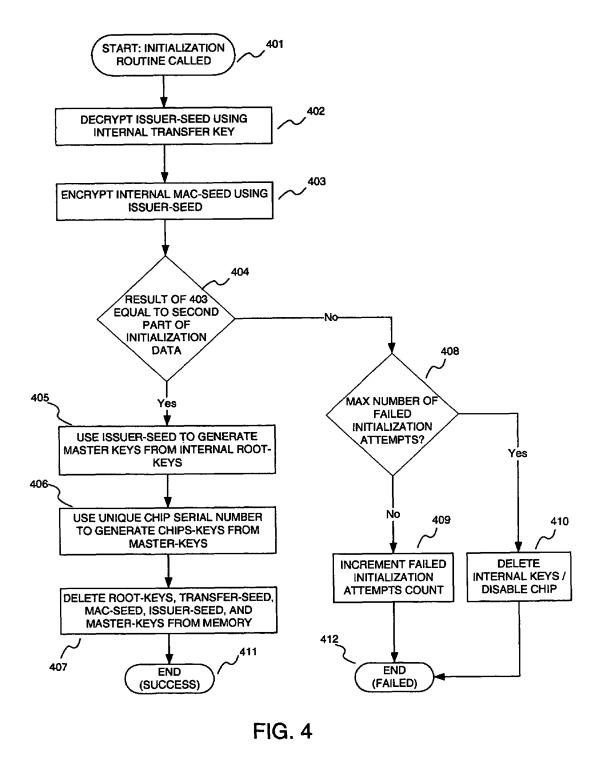


FIG. 3

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