US008792637B2

(12) **United States Patent**
Tang et al.

(10) **Patent No.: US 8,792,637 B2**
(45) **Date of Patent: Jul. 29, 2014**

(54) **DOWNLOADING OF DATA TO SECURE DEVICES**

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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 89 days.

(21) Appl. No.: **13/302,639**

(22) Filed: **Nov. 22, 2011**

(65) **Prior Publication Data**

US 2013/0129086 A1 May 23, 2013

(51) **Int. Cl.**

H04L 9/00	(2006.01)
H04L 29/06	(2006.01)
H04L 9/32	(2006.01)
G06F 21/00	(2013.01)
G06F 12/14	(2006.01)
H04L 9/08	(2006.01)

(52) **U.S. Cl.**

CPC ***H04L 9/0891*** (2013.01); ***H04L 9/0861*** (2013.01); ***H04L 63/0435*** (2013.01); *H04L 63/0428* (2013.01); *H04L 9/3236* (2013.01)

USPC **380/44**; 380/277; 713/150; 713/168; 713/189; 713/190

(58) **Field of Classification Search**

CPC G06F 21/10; G06F 21/606; G06F 21/62; H04L 12/40104; H04L 9/0844; H04L 63/0428; H04L 9/3236

USPC 380/255, 259, 44–47, 277–286; 713/150, 168, 170, 189, 190

See application file for complete search history.

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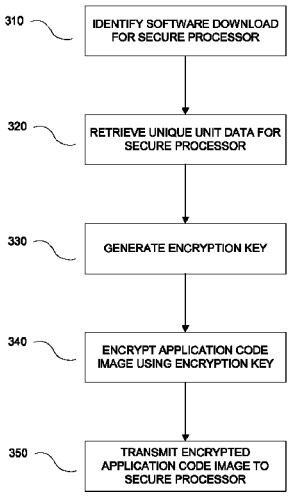
(57) **ABSTRACT**

An encryption key may be generated based on personalized unit data associated with a software download recipient, for example, a secure processor. In some aspects, the secure processor may generate a decryption key based on its personalized unit data, and a software download may be performed between the software provider and the secure processor using the generated encryption keys. The secure processor may then decrypt and load the software for execution. The encryption and decryption key generation may also be based on a sequence number or other data indicating one or more previous software downloads at the secure processor. Using the sequence number or other data, sequences of multiple encryption and/or decryption keys may be generated to support multiple software downloads to a secure processor.

21 Claims, 8 Drawing Sheets