

EXHIBIT B



US008118218C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (12203rd)
United States Patent
Koh et al. (10) **Number:** **US 8,118,218 C1**
 (45) **Certificate Issued:** **Jan. 11, 2023**

- (54) **METHOD AND APPARATUS FOR PROVIDING ELECTRONIC PURSE**
- (75) Inventors: **Liang Seng Koh**, Fremont, CA (US); **Futong Cho**, Milpitas, CA (US); **Hsin Pan**, Fremont, CA (US); **Fuliang Cho**, San Jose, CA (US)
- (73) Assignee: **SHENZHEN RFCYBER ASSET MANAGEMENT LLP**

(58) **Field of Classification Search**
 None
 See application file for complete search history.

(56) **References Cited**
 To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/020,143, please refer to the USPTO's Patent Electronic System.

Reexamination Request:
 No. 90/020,143, Jan. 14, 2022

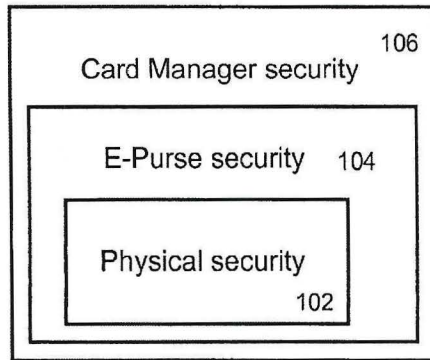
Primary Examiner — Christopher E. Lee

Reexamination Certificate for:
 Patent No.: **8,118,218**
 Issued: **Feb. 21, 2012**
 Appl. No.: **11/534,653**
 Filed: **Sep. 24, 2006**

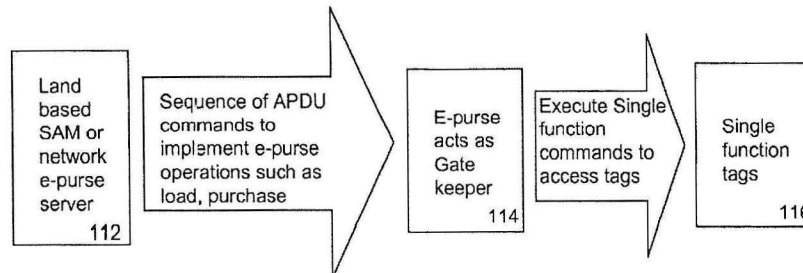
(57) **ABSTRACT**
 Techniques for portable devices functioning as an electronic purse (e-purse) are disclosed. According to one aspect of the invention, a mechanism is provided to enable a portable device to conduct transactions over an open network with a payment server without compromising security. In one embodiment, a device is loaded with an e-purse manager. The e-purse manager is configured to manage various transactions and functions as a mechanism to access an emulator therein. The transactions may be conducted over a wired network or a wireless network. A three-tier security model is contemplated to support the security of the transactions from the e-purse. The three-tier security model includes a physical security, an e-purse security and a card manager security, concentrically encapsulating one with another. Security keys (either symmetric or asymmetric) are personalized within the three-tier security model.

- (51) **Int. Cl.**
G06K 5/00 (2006.01)
G06Q 20/36 (2012.01)
G06Q 20/38 (2012.01)
G06Q 20/06 (2012.01)
G06Q 20/10 (2012.01)
- (52) **U.S. Cl.**
CPC **G06Q 20/367** (2013.01); **G06Q 20/06** (2013.01); **G06Q 20/10** (2013.01); **G06Q 20/102** (2013.01); **G06Q 20/105** (2013.01); **G06Q 20/3672** (2013.01); **G06Q 20/386** (2020.05); **G06Q 20/3674** (2013.01); **G06Q 20/382** (2013.01)

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**EX PARTE
REEXAMINATION CERTIFICATE**

NO AMENDMENTS HAVE BEEN MADE TO 5
THE PATENT

AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

The patentability of claims **1-18** is confirmed. 10

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US008448855C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (12283rd)

United States Patent

(10) **Number:** **US 8,448,855 C1**

Koh et al.

(45) **Certificate Issued:** **Apr. 28, 2023**

(54) **METHOD AND APPARATUS FOR FUNDING AN ELECTRONIC PURSE**

(75) Inventors: **Liang Seng Koh**, Fremont, CA (US); **Futong Cho**, Milpitas, CA (US); **Hsin Pan**, Fremont, CA (US); **Fuliang Cho**, San Jose, CA (US)

(73) Assignee: **SHENZHEN RFCYBER ASSET MANAGEMENT, LLP**, Guangdong (CN)

(52) **U.S. Cl.**
CPC **G06Q 20/367** (2013.01); **G06Q 20/06** (2013.01); **G06Q 20/10** (2013.01); **G06Q 20/102** (2013.01); **G06Q 20/105** (2013.01)

(58) **Field of Classification Search**
CPC .. **G06Q 20/06**; **G06Q 20/367**; **G06Q 20/3672**; **G06Q 20/386**; **G06Q 20/10**; **G06Q 20/105**; **G06Q 20/102**; **G06Q 20/382**; **G06Q 20/3674**
USPC **235/380**
See application file for complete search history.

Reexamination Request:

No. 90/020,144, Jan. 14, 2022

Reexamination Certificate for:

Patent No.: **8,448,855**
Issued: **May 28, 2013**
Appl. No.: **13/400,038**
Filed: **Feb. 18, 2012**

Related U.S. Application Data

(63) Continuation of application No. 11/534,653, filed on Sep. 24, 2006, now Pat. No. 8,118,218.

(51) **Int. Cl.**

G06Q 20/00 (2012.01)
G06Q 20/36 (2012.01)
G06Q 20/38 (2012.01)
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G06Q 20/10 (2012.01)

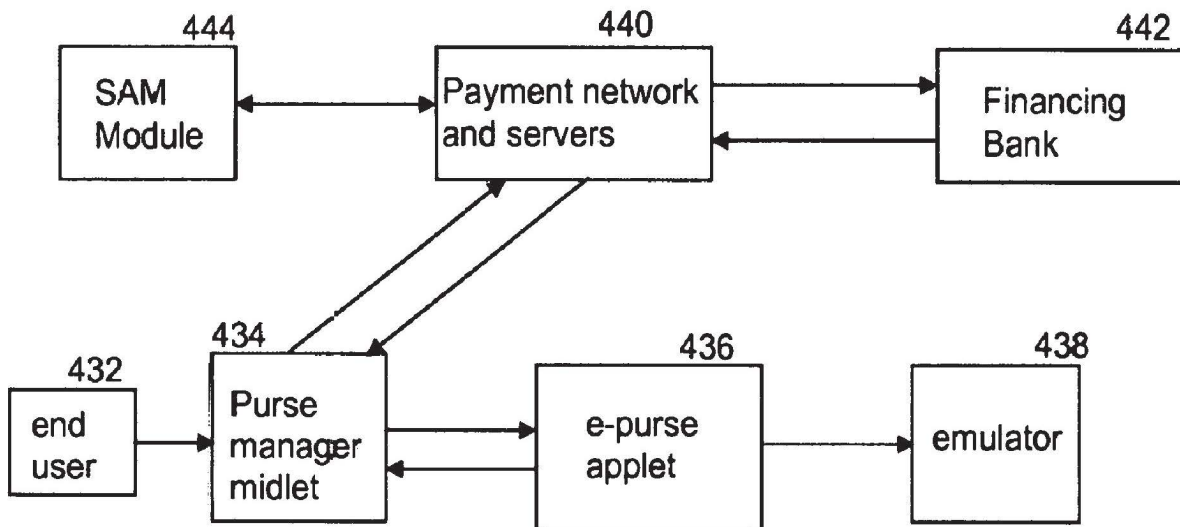
(56) **References Cited**

To view the complete listing of prior art documents cited during the proceeding for Reexamination Control Number 90/020,144, please refer to the USPTO's Patent Electronic System.

Primary Examiner — Henry N Tran

(57) **ABSTRACT**

Techniques for funding an electronic purse (e-purse) are disclosed. According to one aspect of the invention, a mechanism is provided to enable a portable device to conduct transactions over an open network with a payment server without compromising security. In one embodiment, a device is loaded with an e-purse manager. The e-purse manager is configured to manage various transactions and functions as a mechanism to access an e-purse therein. The e-purse is funded by interactions among the e-purse manager, a payment server and a financial institution (its server) that maintains an account therefor.



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**EX PARTE
REEXAMINATION CERTIFICATE**

NO AMENDMENTS HAVE BEEN MADE TO 5
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DETERMINED THAT:

The patentability of claims 1-17 is confirmed. 10

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