

(12) **United States Patent**
Chatterjee(10) **Patent No.:** **US 9,940,124 B2**
(45) **Date of Patent:** ***Apr. 10, 2018**(54) **MODIFICATION OF TERMINAL AND SERVICE PROVIDER MACHINES USING AN UPDATE SERVER MACHINE**(71) Applicant: **S3G Technology LLC**, Foster City, CA (US)(72) Inventor: **Sandeep Chatterjee**, Foster City, CA (US)(73) Assignee: **S3G Technology LLC**, Foster City, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **15/065,757**(22) Filed: **Mar. 9, 2016**(65) **Prior Publication Data**

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Related U.S. Application Data

(63) Continuation of application No. 14/788,506, filed on Jun. 30, 2015, now Pat. No. 9,304,758, which is a (Continued)

(51) **Int. Cl.****H04M 3/42** (2006.01)**H04M 11/00** (2006.01)

(Continued)

(52) **U.S. Cl.**CPC **G06F 8/65** (2013.01); **G06F 9/4443** (2013.01); **G06F 11/3664** (2013.01); **H04L 67/34** (2013.01); **H04W 4/003** (2013.01)(58) **Field of Classification Search**

CPC . G06F 8/00; G06F 8/61; G06F 8/4443; G06F 8/65; G06F 9/4443; G06Q 20/322; (Continued)

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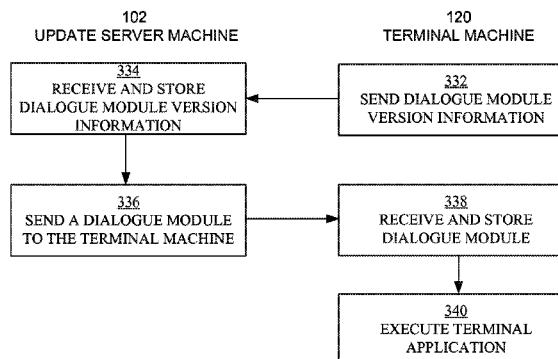
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Primary Examiner — Thuy Dao*(74) Attorney, Agent, or Firm* — Morgan, Lewis & Bockius LLP(57) **ABSTRACT**

The system includes a terminal machine and a service provider machine. The terminal machine is modified using an update server machine. The terminal machine includes a terminal application for displaying a prompt in a first sequence of prompts and accepting a user data entry in a first series of data entries. The service provider machine includes a provider application for receiving the user data entry. The update server machine sends a dialogue module including a first and second set of updated code to the terminal machine and the service provider machine, respectively. The dialogue module does not modify computer-executable instructions saved on the terminal or service provider machines. The first and second set of updated code adapts the terminal application and provider application, respectively, to use a second sequence of prompts and a second sequence of data entries.

135 Claims, 15 Drawing Sheets330
TERMINAL MACHINE DIALOGUE MODULE,
UPDATE SEQUENCE

US 9,940,124 B2

Page 2

Related U.S. Application Data

continuation of application No. 14/060,490, filed on Oct. 22, 2013, now Pat. No. 9,081,897, which is a continuation of application No. 12/841,113, filed on Jul. 21, 2010, now Pat. No. 8,572,571.

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G06F 11/36 (2006.01)
H04L 29/08 (2006.01)

(58) Field of Classification Search

CPC .. G06Q 20/40; G06Q 20/327; G06Q 30/0202; G06Q 30/0246; H04W 12/06; H04W 4/12; H04M 3/4878; H04M 3/51; H04M 3/5175

See application file for complete search history.

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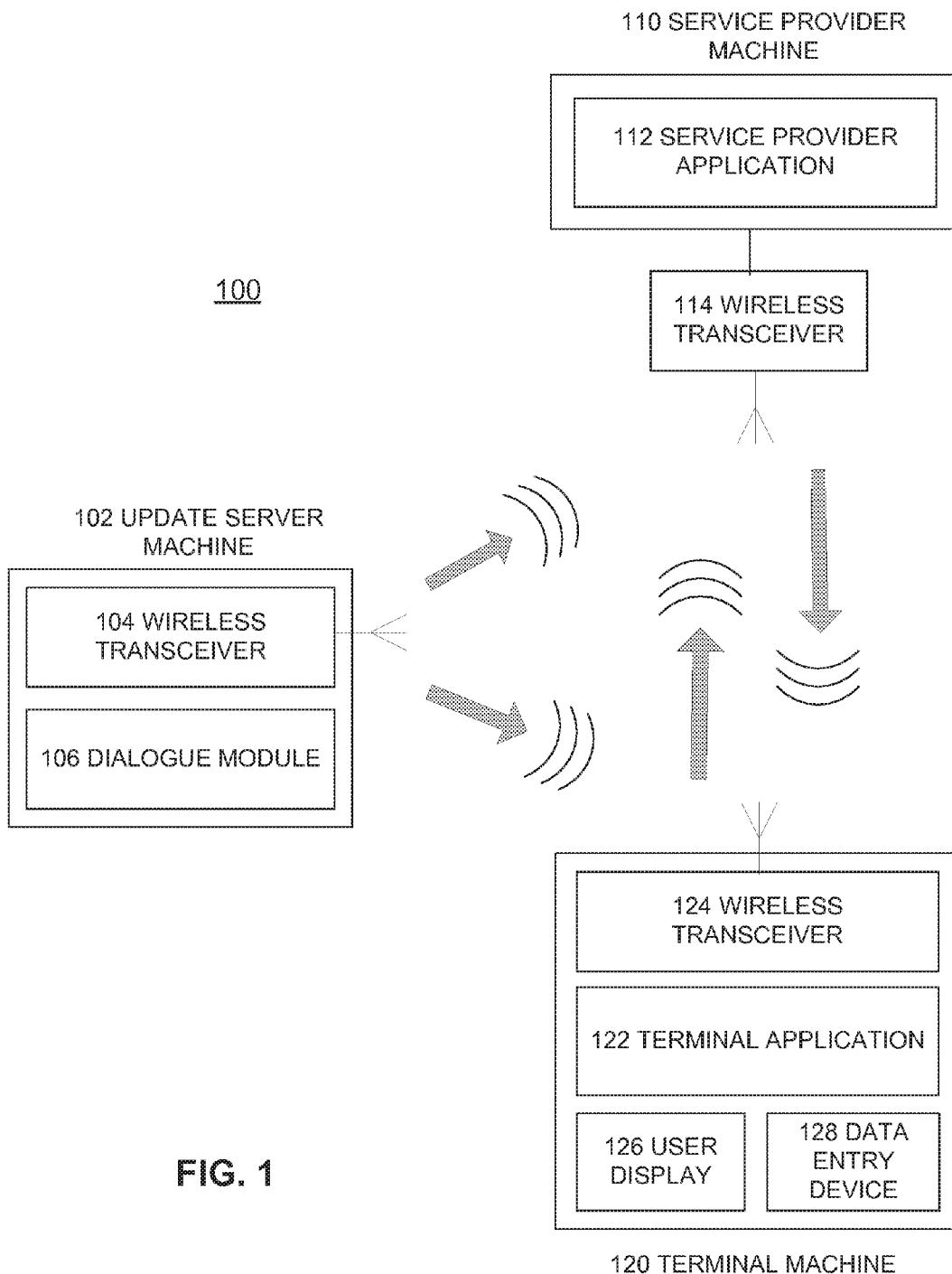
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U.S. Patent

Apr. 10, 2018

Sheet 1 of 15

US 9,940,124 B2



U.S. Patent

Apr. 10, 2018

Sheet 2 of 15

US 9,940,124 B2

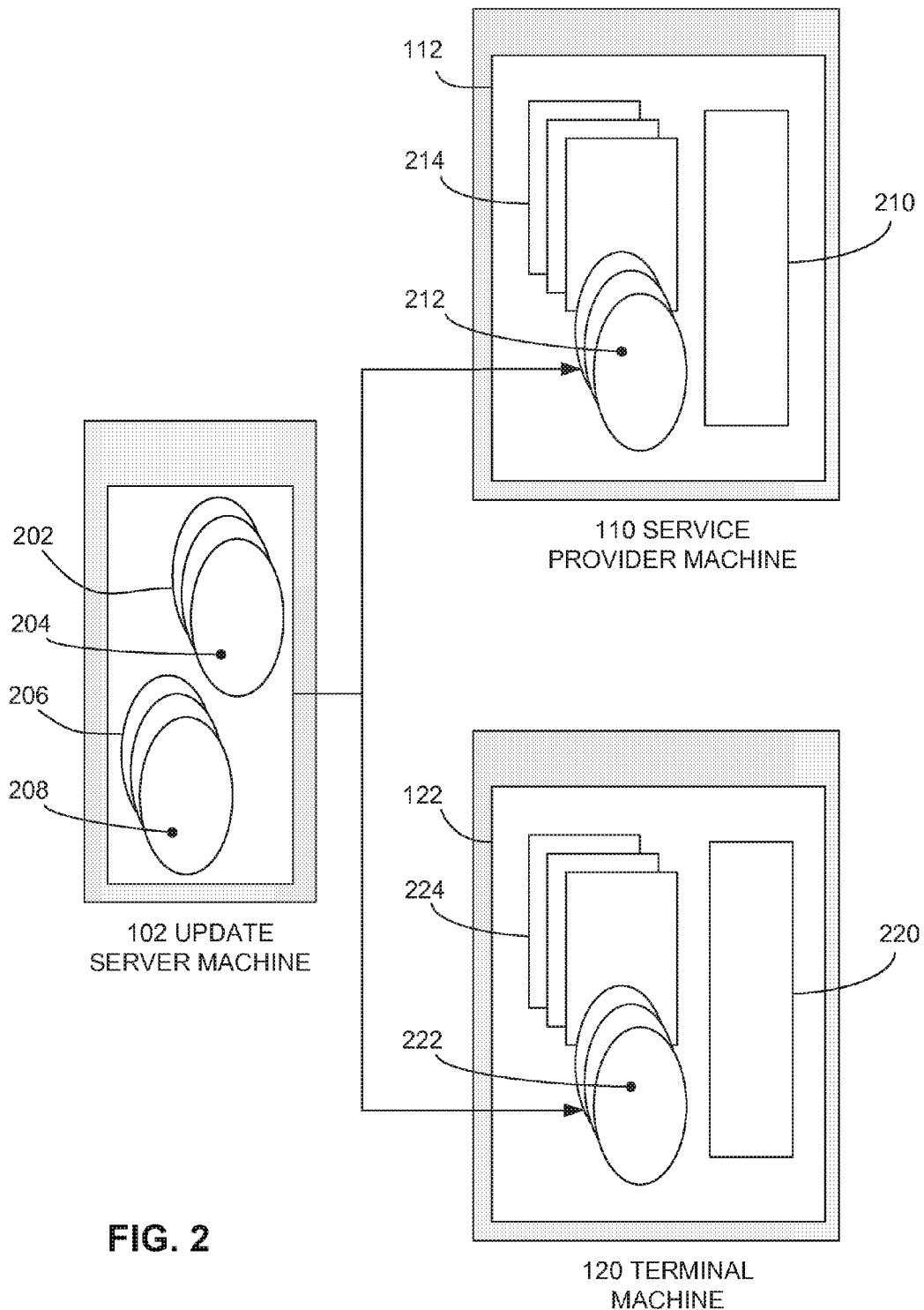


FIG. 2

U.S. Patent

Apr. 10, 2018

Sheet 3 of 15

US 9,940,124 B2

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TERMINAL MACHINE DIALOGUE MODULE,
UPDATE SEQUENCE

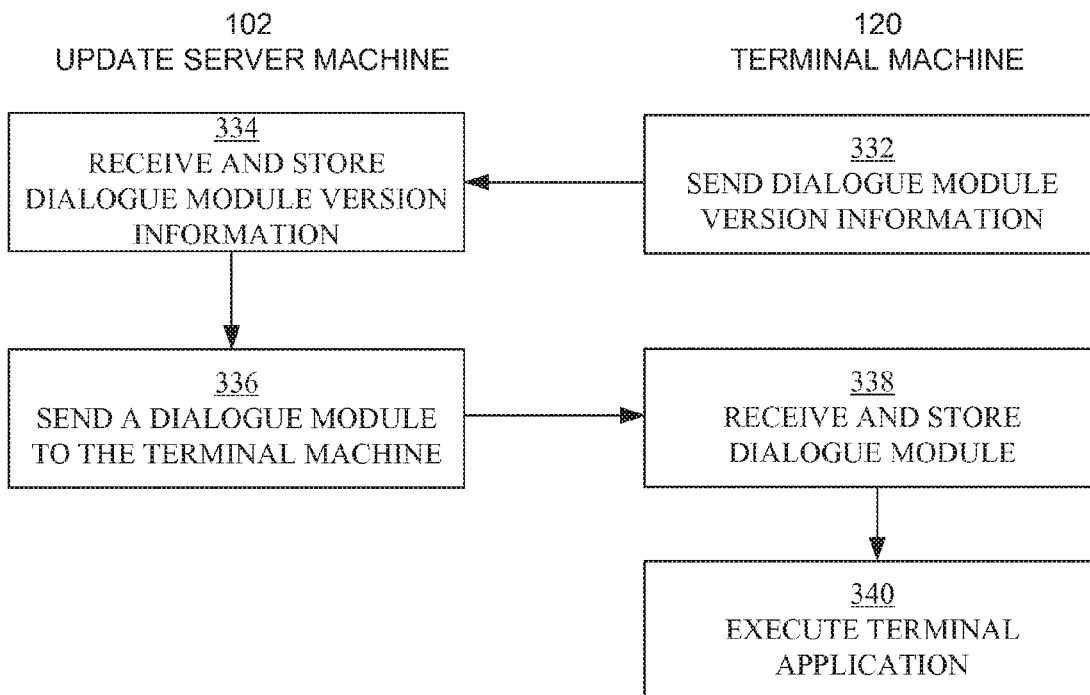


FIG. 3A

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