

(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**

(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)

(71) Applicant: **S3G Technology LLC**, Foster City, CA (US)

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(72) Inventor: **Sandeep Chatterjee**, Foster City, CA (US)

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(73) Assignee: **S3G Technology LLC**, Foster City, CA (US)

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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 0 days.

This patent is subject to a terminal disclaimer.

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(21) Appl. No.: **15/065,757**

(22) Filed: **Mar. 9, 2016**

(65) **Prior Publication Data**  
US 2016/0188321 A1 Jun. 30, 2016

(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.

**Related U.S. Application Data**

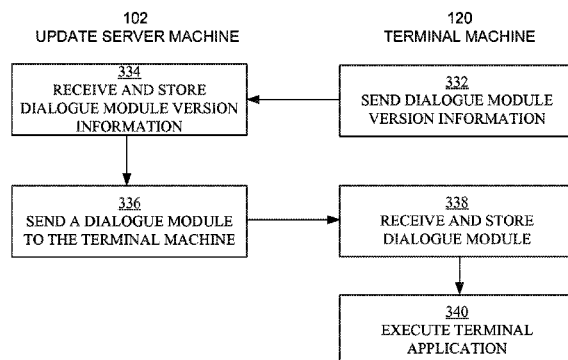
(63) Continuation of application No. 14/788,506, filed on Jun. 30, 2015, now Pat. No. 9,304,758, which is a (Continued)

(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)

**135 Claims, 15 Drawing Sheets**

330  
TERMINAL MACHINE DIALOGUE MODULE,  
UPDATE SEQUENCE



**US 9,940,124 B2**

**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.
- (60) Provisional application No. 61/325,212, filed on Apr. 16, 2010, provisional application No. 61/228,140, filed on Jul. 23, 2009.
- (51) **Int. Cl.**  
*H04M 3/487* (2006.01)  
*H04M 3/493* (2006.01)  
*G06F 9/445* (2018.01)  
*H04W 4/00* (2018.01)  
*G06F 9/44* (2018.01)  
*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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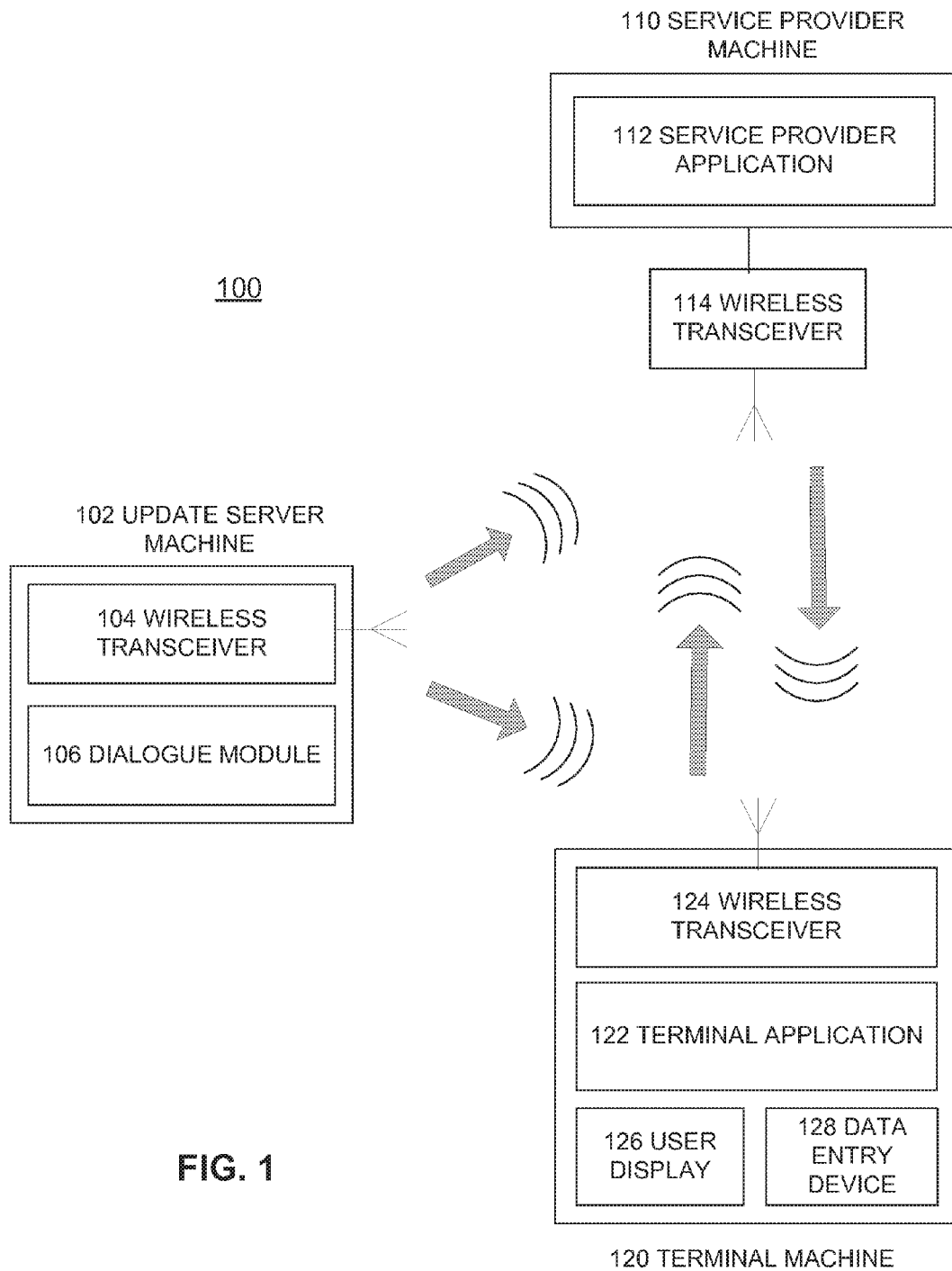


FIG. 1

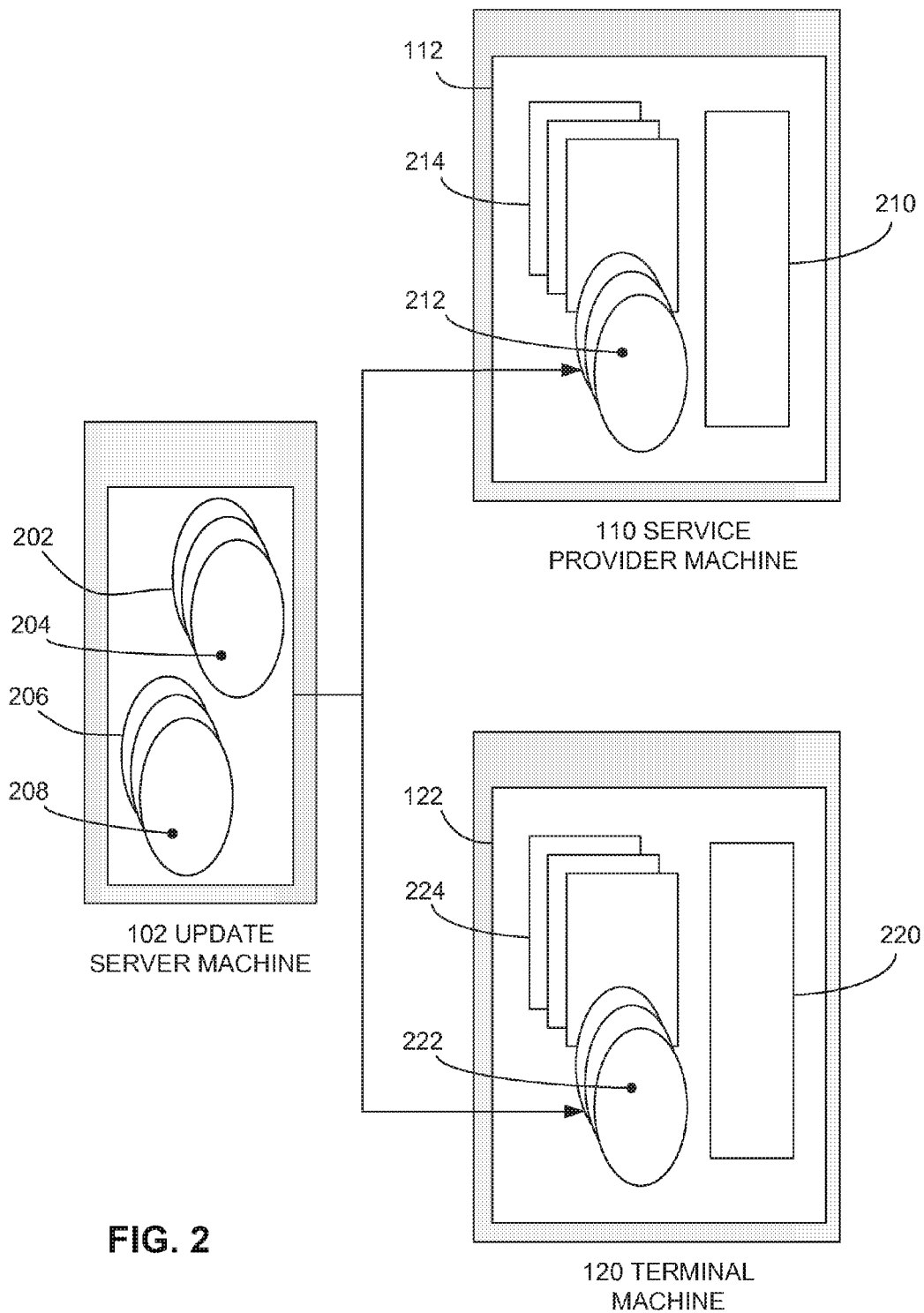


FIG. 2

330  
TERMINAL MACHINE DIALOGUE MODULE,  
UPDATE SEQUENCE

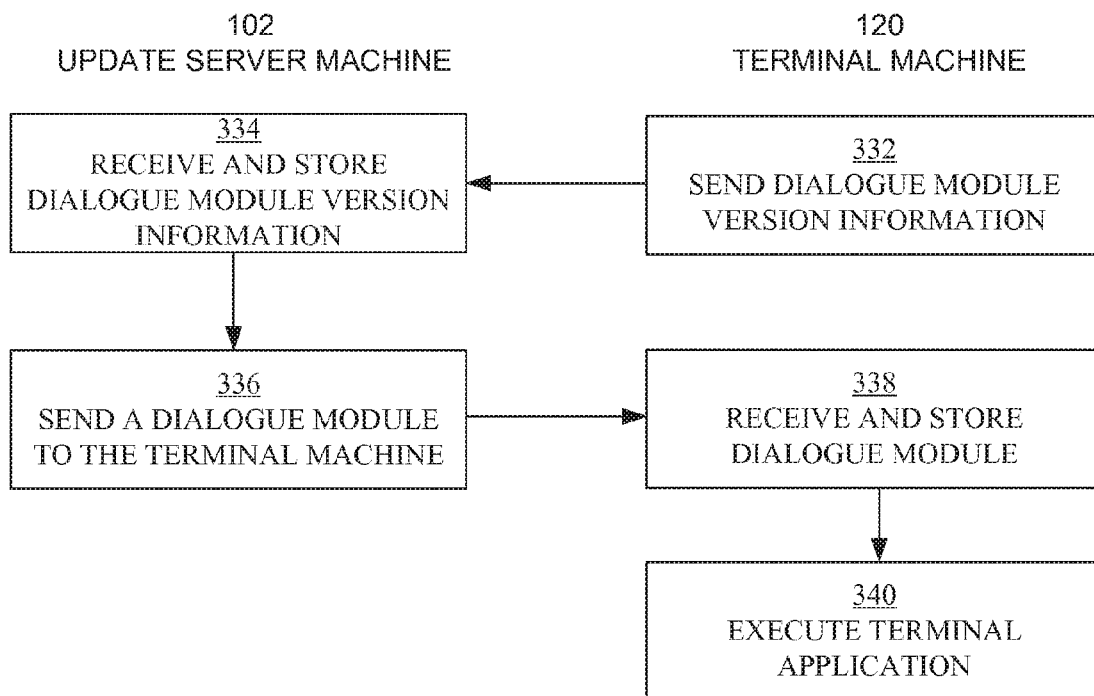


FIG. 3A

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