

(12) **United States Patent**  
**Chatterjee**

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(54) **MODIFICATION OF TERMINAL AND SERVICE PROVIDER MACHINES USING AN UPDATE SERVER MACHINE**

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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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**Related U.S. Application Data**

(63) Continuation of application No. 15/065,757, filed on Mar. 9, 2016, now Pat. No. 9,940,124, which is a (Continued)

(51) **Int. Cl.**  
**H04L 29/06** (2006.01)  
**H04L 29/08** (2006.01)  
(Continued)

(52) **U.S. Cl.**  
CPC ..... **G06F 8/65** (2013.01); **G06F 9/451** (2018.02); **G06F 11/3664** (2013.01); **H04L 67/34** (2013.01); **H04W 4/60** (2018.02)

(58) **Field of Classification Search**  
CPC ..... G10L 15/22; H04L 67/34; H04L 41/22; H04L 41/5054; H04L 29/06;  
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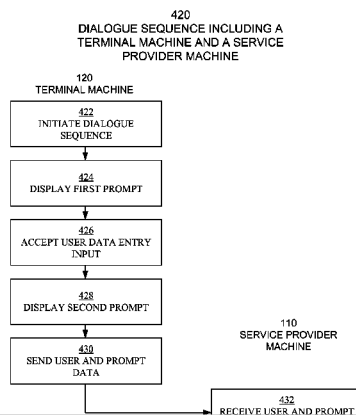
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(57) **ABSTRACT**

A method including (i) displaying a first prompt on a terminal display of a terminal machine by running a terminal application, the terminal application comprising first computer-executable instructions and first code that conduct the terminal machine's portion of a dialogue sequence, (ii) accepting a first data entry at the terminal machine, (iii) communicating information associated with the first data entry from the terminal machine to the service provider machine, the service provider machine using a provider application comprising second computer-executable instructions and second code that conduct the service provider machine's portion of the dialogue sequence, and (iv) receiving, at the terminal machine, third code that modifies at least a portion of the first code to produce first updated code, wherein the first updated code adapts the terminal application to display a second prompt for the terminal machine's portion of a modified dialogue sequence with the service provider machine.

**20 Claims, 15 Drawing Sheets**



**US 10,261,774 B2**

**Related U.S. Application Data**

- continuation of application No. 14/788,506, filed on Jun. 30, 2015, now Pat. No. 9,304,758, which is a 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.**  
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*H04L 12/24* (2006.01)  
*G06F 8/65* (2018.01)  
*G06F 11/36* (2006.01)  
*G06F 9/451* (2018.01)  
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- (58) **Field of Classification Search**  
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 G06Q 20/14; G06Q 20/204; G06Q 10/08;  
 G06Q 10/14; H04W 4/60; H04W 4/02;  
 H04W 12/06
- See application file for complete search history.

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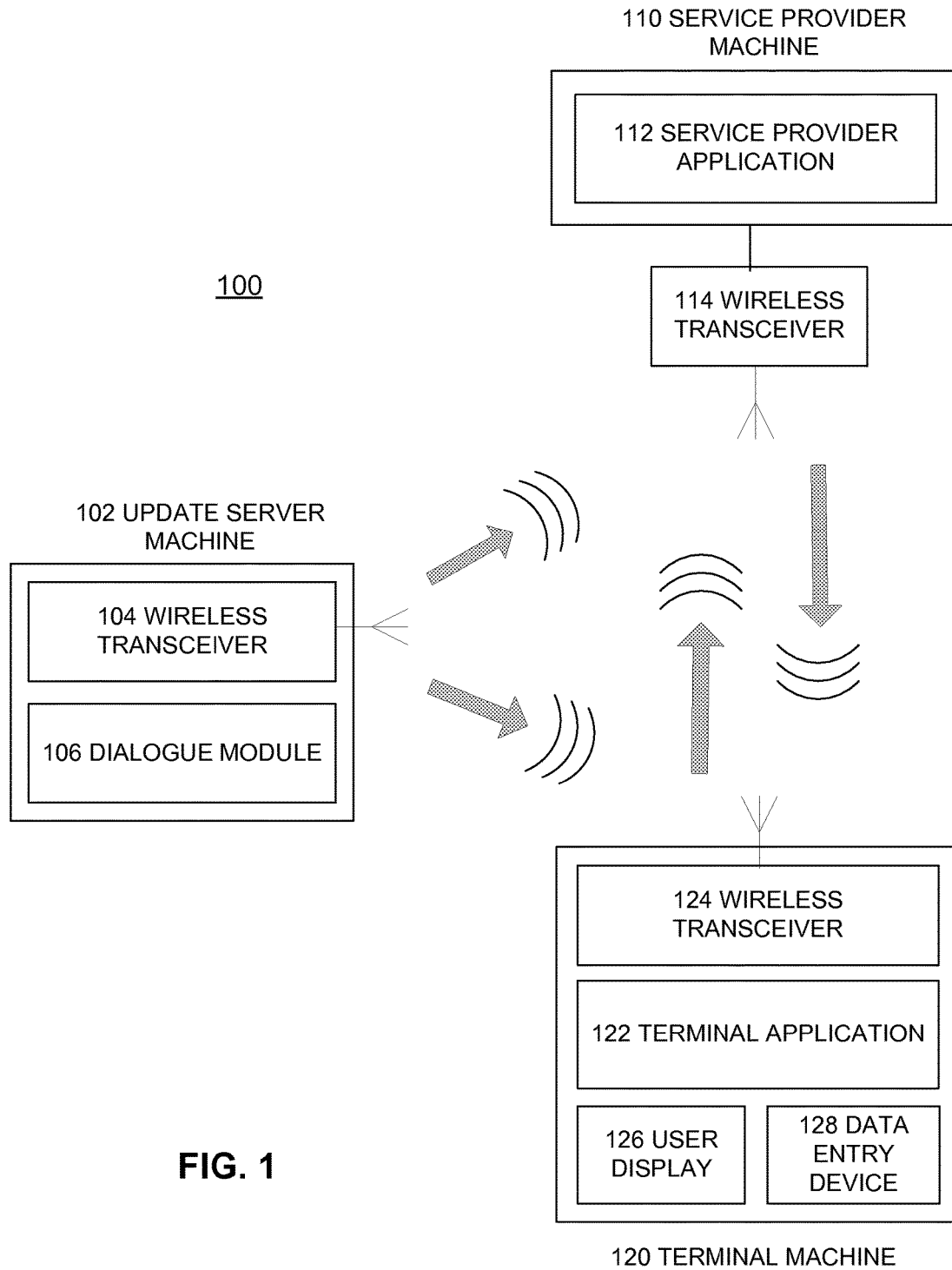


FIG. 1

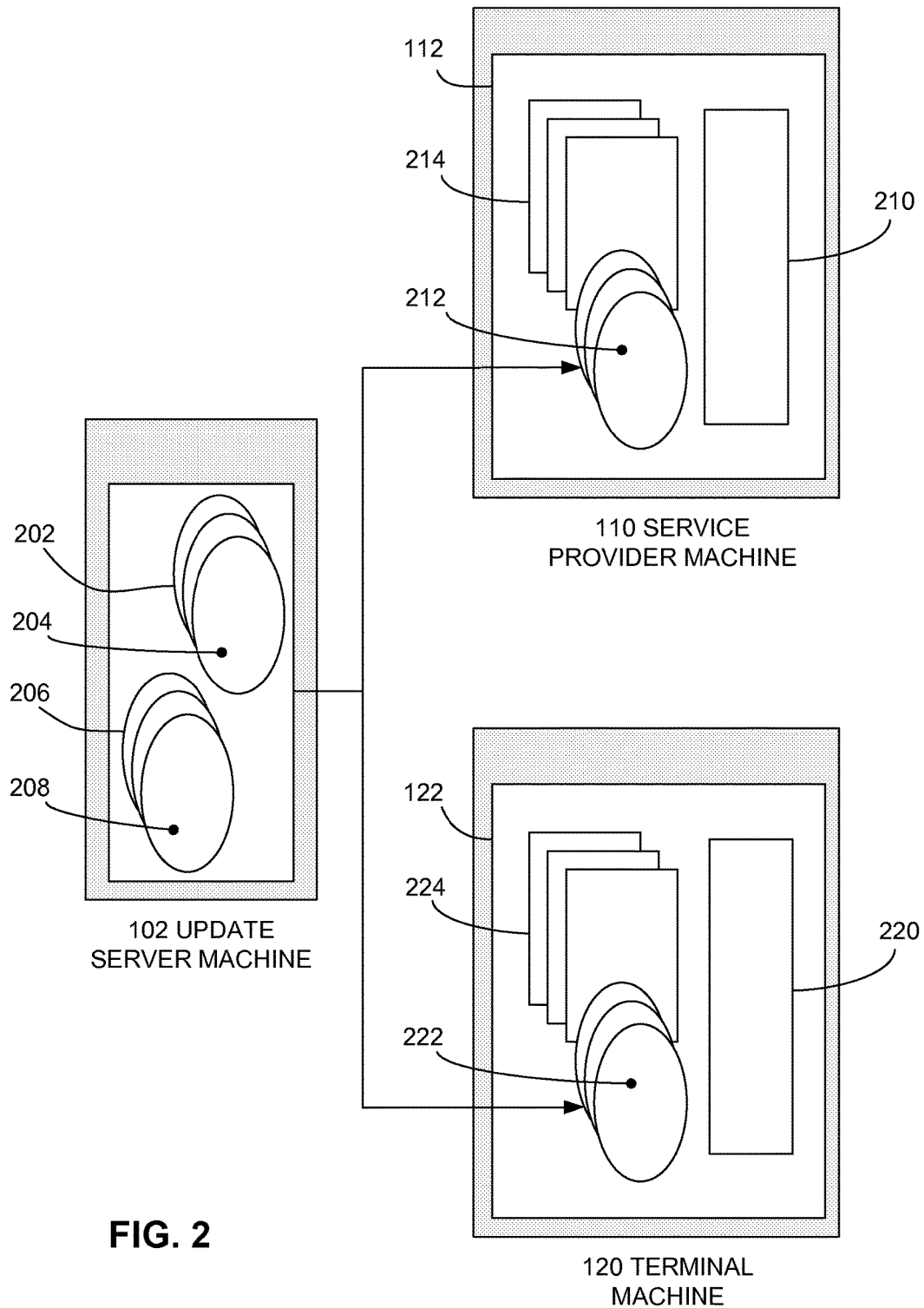


FIG. 2

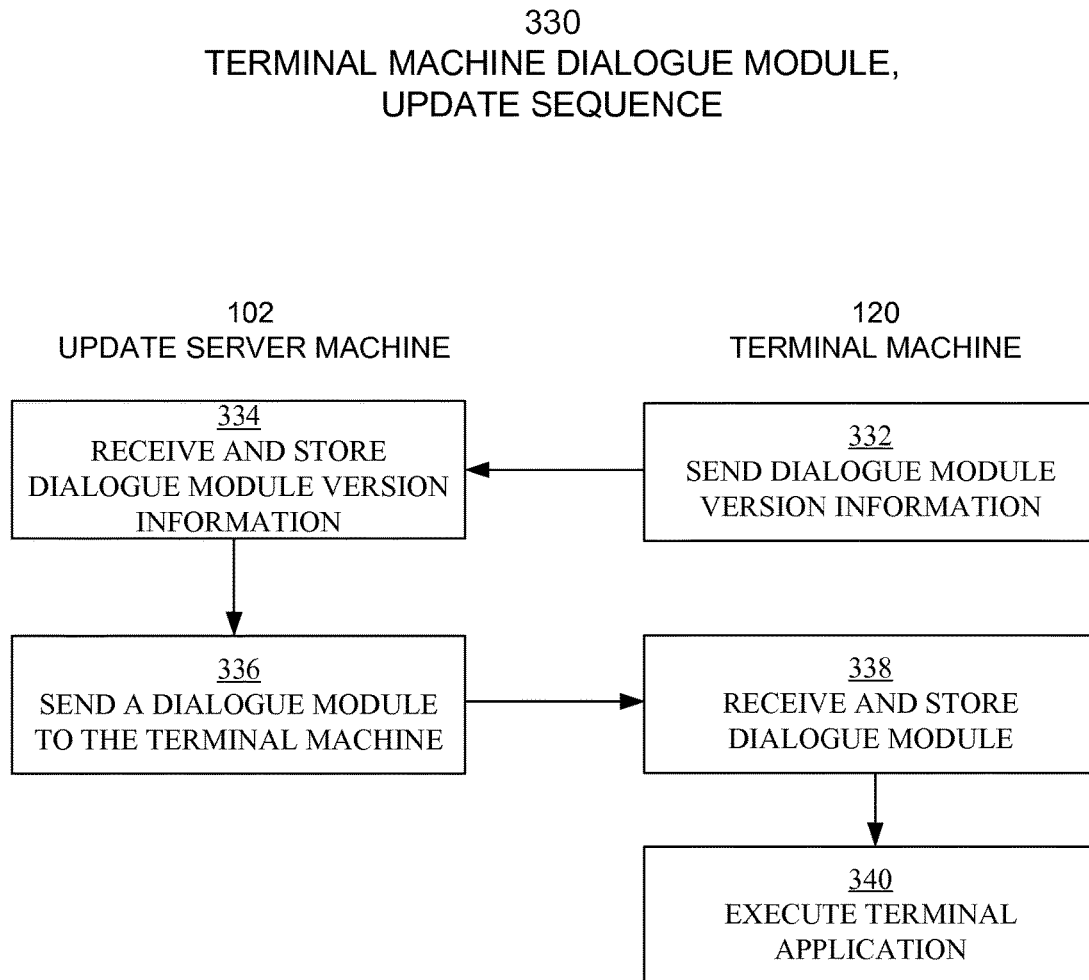


FIG. 3A

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