



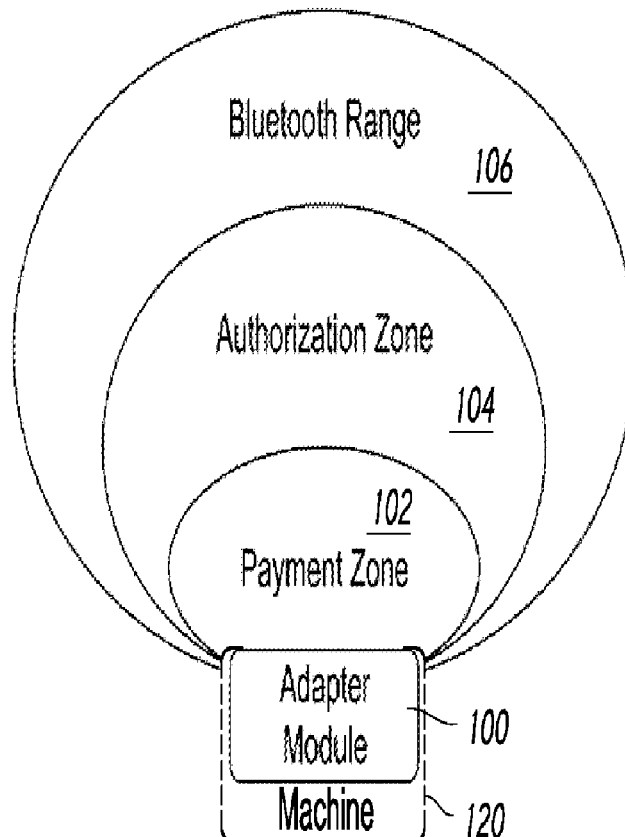
US 20170193508A1

(19) **United States**(12) **Patent Application Publication****Patel et al.**(10) **Pub. No.: US 2017/0193508 A1**(43) **Pub. Date:****Jul. 6, 2017**(54) **METHOD AND SYSTEM FOR PERFORMING
MOBILE DEVICE-TO-MACHINE PAYMENTS****G06Q 20/18** (2006.01)**G06Q 20/38** (2006.01)(71) Applicant: **PAYRANGE INC.**, Portland, OR (US)(52) **U.S. Cl.****CPC** **G06Q 20/405** (2013.01); **G06Q 20/3821**
(2013.01); **G06Q 20/3226** (2013.01); **G06Q**
20/327 (2013.01); **G06Q 20/18** (2013.01);
G06Q 20/3829 (2013.01); **G06Q 20/401**
(2013.01); **G06Q 2220/00** (2013.01)(72) Inventors: **Paresh K. Patel**, Portland, OR (US);
Chau M. Doan, Beaverton, OR (US)(21) Appl. No.: **15/406,492**(22) Filed: **Jan. 13, 2017****Related U.S. Application Data**(63) Continuation of application No. 14/335,762, filed on
Jul. 18, 2014, now Pat. No. 9,547,859, which is a
continuation of application No. 14/214,644, filed on
Mar. 14, 2014, now Pat. No. 8,856,045, which is a
continuation-in-part of application No. 29/477,025,
filed on Dec. 18, 2013, now Pat. No. Des. 755,183.(60) Provisional application No. 61/917,936, filed on Dec.
18, 2013.**Publication Classification**(51) **Int. Cl.****G06Q 20/40** (2006.01)**G06Q 20/32** (2006.01)

(57)

ABSTRACT

A device with one or more processors, memory, and two or more communication capabilities obtains, from a payment module, an authorization request via a first communication capability (e.g., Bluetooth). The device sends, to a server, the authorization request via a second communication capability distinct from the first communication capability (e.g., cellular or WiFi technology). In response to sending the authorization request, the device obtains, from the server, authorization information via the second communication capability. After obtaining the authorization information, the device detects a trigger condition to perform a transaction with a payment accepting unit associated with the payment module. In response to detecting the trigger condition, the device sends, to the payment module, at least a portion of the authorization information via the first communication capability.



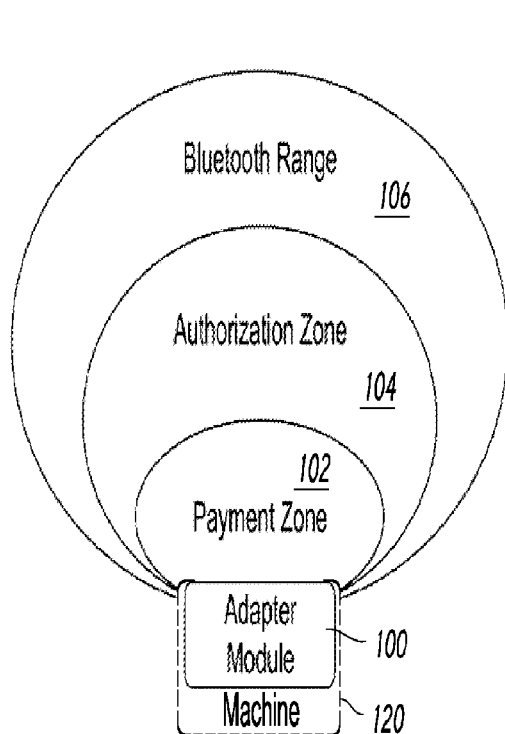


FIG. 1

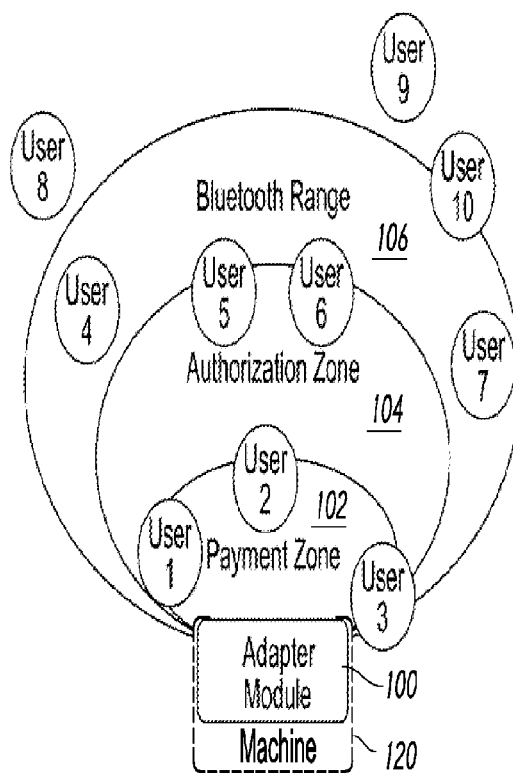


FIG. 2

Tab	Favorite?	Alert	View to User
All	Yes	No	User can make Hands-free Credit with the connected vending machine
All	No	Yes	User needs to launch Mobile Device and then swipe to make transaction manually
Favorite	Yes	No	Hands-free transaction will be available to the user via vending machine
Favorite	No	No	User is not alerted for the vending machine which is not a favorite machine. Hands-free mode will not work, manual swipe for transaction required by user.
Either All or Favorite	Yes	Yes	BUT Hands-free Credit is not available (disabled by module, expired AuthGrant, insufficient balance, or other issue), then user will get an alert so that user can swipe credit manually.

FIG. 3

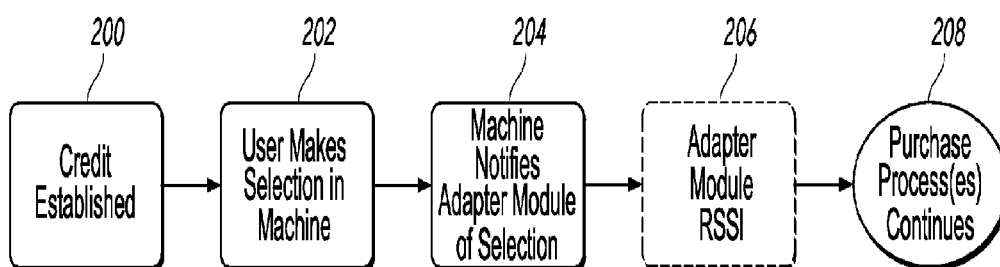
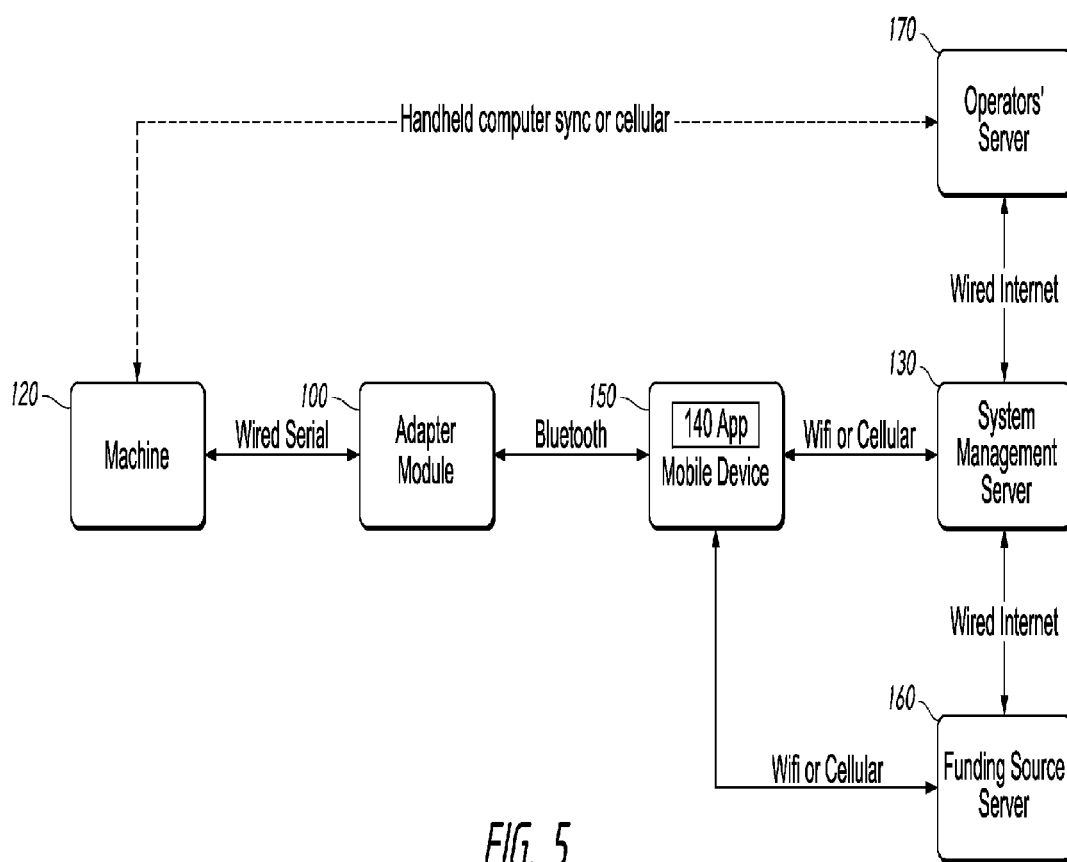


FIG. 4



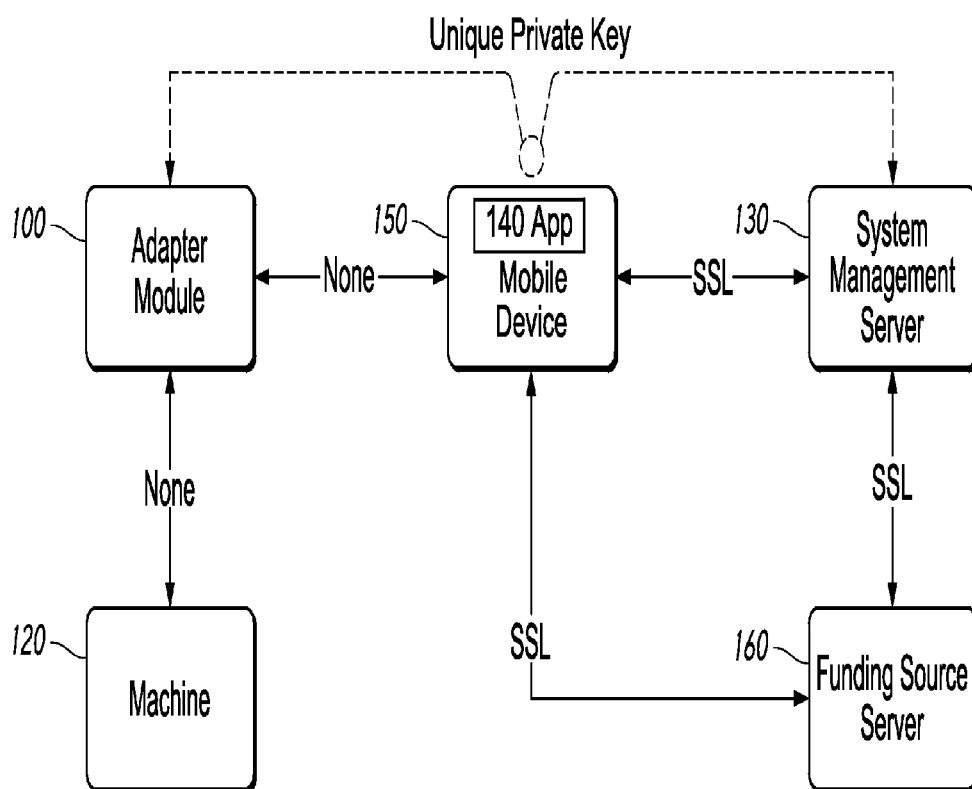


FIG. 6

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