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## (12) United States Patent Patel

### (10) Patent No.: US 10,891,608 B2

(45) **Date of Patent:** \*Jan. 12, 2021

#### (54) METHOD AND SYSTEM FOR AN OFFLINE-PAYMENT OPERATED MACHINE TO ACCEPT ELECTRONIC PAYMENTS

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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 216 days.

This patent is subject to a terminal dis-

claimer.

(21) Appl. No.: 15/878,352

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(65) Prior Publication Data

US 2018/0181945 A1 Jun. 28, 2018

#### Related U.S. Application Data

(63) Continuation of application No. 14/458,192, filed on Aug. 12, 2014, now Pat. No. 9,875,473, which is a (Continued)

(51) **Int. Cl. G06Q 30/00** (2012.01) **G06Q 20/32** (2012.01)

(52) **U.S. Cl.** CPC ...... *G06Q 20/327* (2013.01)

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NPL Search History.\*

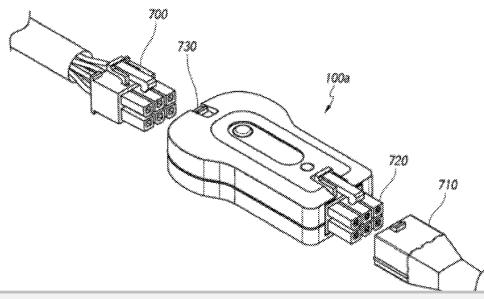
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Primary Examiner — John H. Holly (74) Attorney, Agent, or Firm — Morgan, Lewis & Bockius LLP

#### (57) ABSTRACT

This application discloses a payment module with one or more processors, memory, a short-range wireless transceiver configured to communicate with one or more mobile devices, and a first interface module configured to output to a control unit of the offline payment-operated machine one or more electrical pulses. The payment module receives a wireless request via the short-range wireless transceiver from a respective mobile device of the one or more mobile devices to initiate a cashless operation of the offline-payment operated machine. In response, the payment module causes the offline payment-operated machine to initiate the requested cashless operation by issuing a first number of electrical pulses to the control unit via the first interface module. Further, in response to the wireless request, the payment module sends operation information corresponding to the initiated operation of the offline payment-operated machine to the respective mobile device via the short-range wireless transceiver.

#### 20 Claims, 45 Drawing Sheets





#### Related U.S. Application Data

continuation-in-part of application No. 14/456,683, filed on Aug. 11, 2014, now Pat. No. 9,256,873, which is a 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, and 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.

#### (58) Field of Classification Search

USPC ...... 705/44, 1.1, 30, 39, 41, 70, 75, 34, 26, 705/81; 455/466, 412, 557, 407; 700/235, 242

See application file for complete search history.

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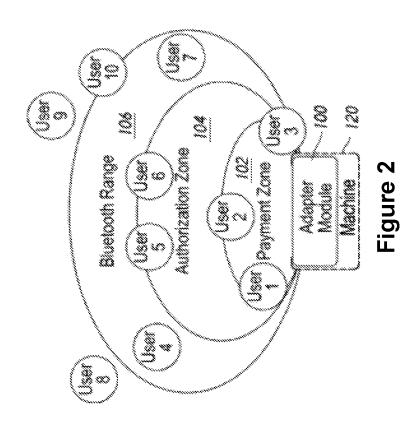
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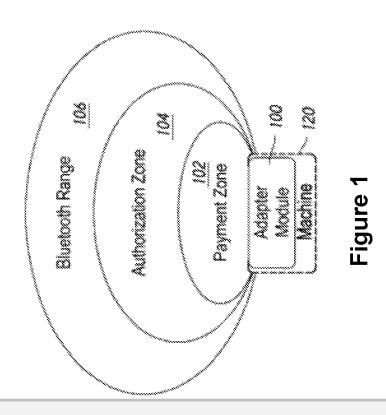
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Figure 3

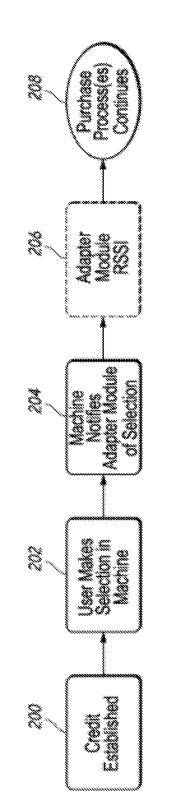


Figure 4

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