

13 Documents

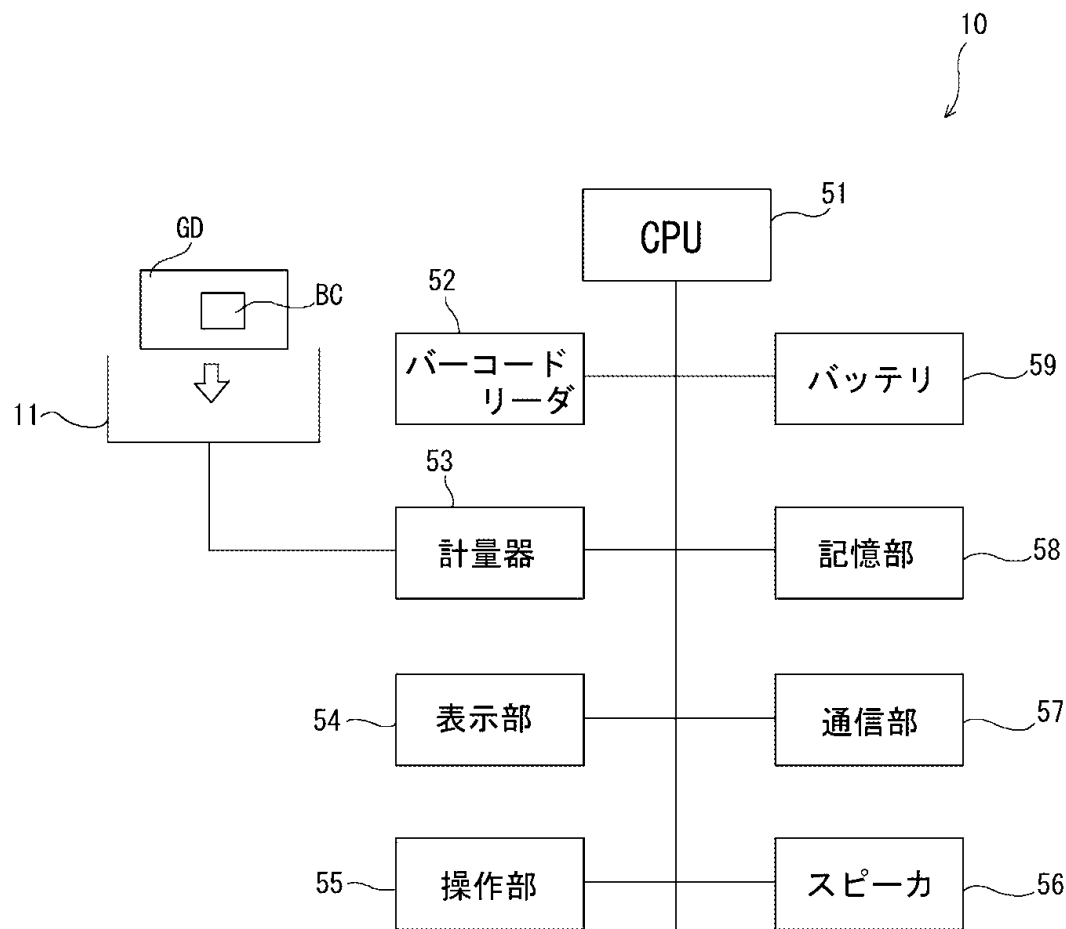
Publication numbers	Title	Current assignees
WO200538733 A1	Shopping cart and register system	ASAO KUNIO, ...
JP2014098722 A	Weighing instrument and label issuing and reading system including the same	ISHIDA
EP2594911 A2	Weighing device	ISHIDA
WO200371903 A1	Self-service product detection station	WINCOR NIXDORF INTERNATIONAL
EP3211388 A1	Weighing system	TOSHIBA TEC
US20080027817 A1	Self-checkout terminal	TOSHIBA TEC
WO200233647 A1	System and method for training and monitoring data reader operators	DATALOGIC SCANNING
CN104792398 A	Integrated scale based on fruit and vegetable identification	HARBIN UNIVERSITY OF SCIENCE & TECHNOLOGY
CN207337465U U	Intelligent management and control an unmanned store one cloud	GUANGXI ALLIANCE COMMERCIAL ROBOT TECHNOLOGY
US20110131105 A1	Degree of fraud calculating device, control method for a degree of fraud calculating device, and store surveillance system	SEIKO EPSON
US20090265216 A1	Method and apparatus for customer specific based food preparation prediction	NCR
CN107330684 A	Cloud intelligent management and control unmanned shop and automatic settlement method thereof	GUANGZHOU LIANYE COMMERCIAL ROBOT TECHNOLOGY
JP5866542 B1	Facility management assistance device, facility management assistance system, and facility management assistance method	PANASONIC INTELLECTUAL PROPERTY MANAGEMENT

Family 1/13 - FAMPAT - ©Questel

Title

(WO200538733)

Shopping cart and register system

Images

52... BARCODE READER
53... WEIGHING MACHINE
54... DISPLAY UNIT
55... OPERATION UNIT

59... BATTERY
58... STORAGE UNIT
57... COMMUNICATION UNIT
56... LOUDSPEAKER

Publication data including kind & date

WO2005038733	A1	2005-04-28	WO200538733
JP2005122420	A	2005-05-12	JP2005122420
JP4535486	B2	2010-09-01	JP4535486

**Abstract**

(WO200538733)

A register system includes: a shopping cart (10) which a customer purchasing commodities carries in a shop; and a register for accounting of the commodities contained in the shopping cart (10). The shopping cart (10) includes: a barcode reader (52) for reading a commodity code and weight information from a barcode attached to a commodity; a weighing machine (53) for weighing the weight of the commodity contained in a containing unit; and a communication unit (57) for receiving information indicating that an unjust action of the customer has been detected according to the analysis of the image picked up by a monitoring camera provided in the shop. When the information indicating that the unjust action of the customer has been detected is received via the communication unit (57), an alarm is outputted under control of a CPU

(51). Thus, in the register system not requiring a register operator, it is possible to prevent unjust action such as shoplifting.

Inventors

ASAO KUNIO

Publication dates

2005-04-28

2005-05-12

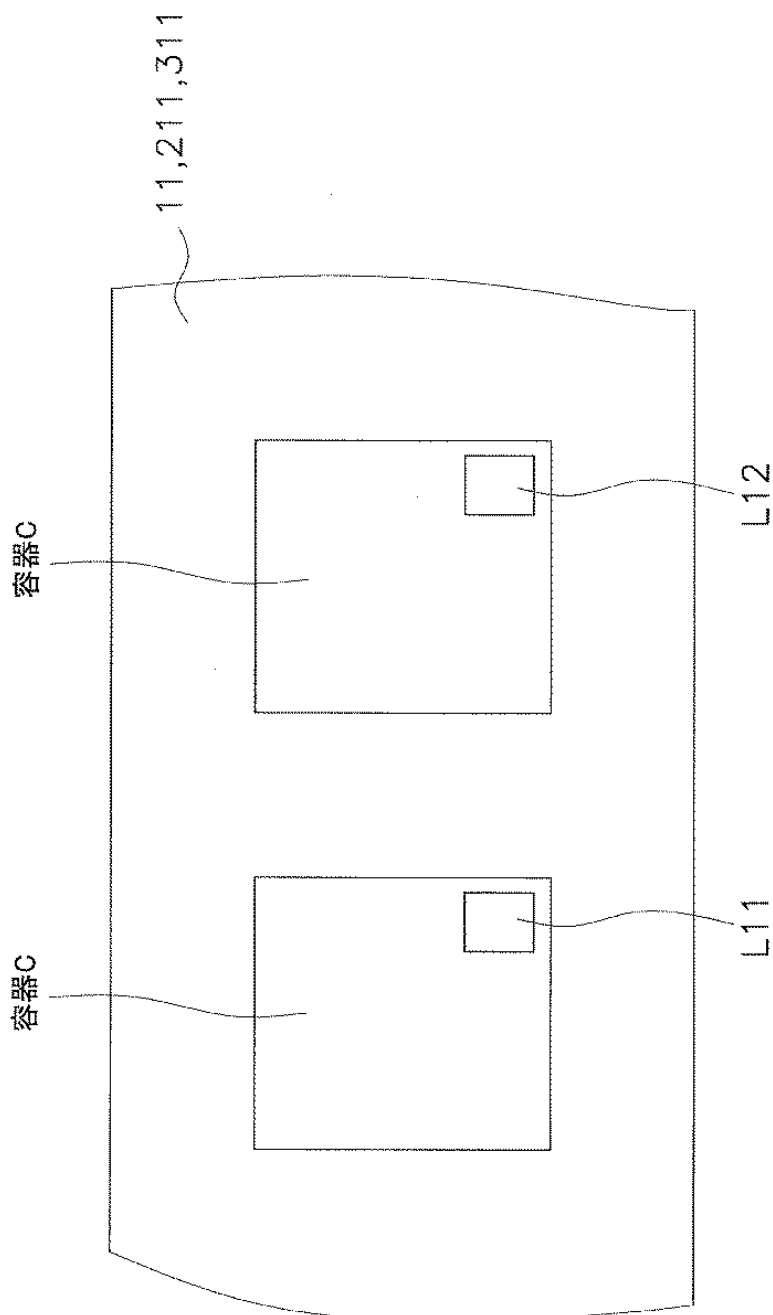
2010-09-01

Family 2/13 - FAMPAT - ©Questel

Title

(JP2014098722)

Weighing instrument and label issuing and reading system including the same

Images

[JP2014098722](#)

A 2014-05-29 JP2014098722

[JP5830115](#)

B2 2015-12-09 JP5830115

Abstract

(JP5830115)

PROBLEM TO BE SOLVED: To provide a weighing instrument capable of coping with the case where goods are divided and put in tares.SOLUTION: A camera detects a size of a tare.A specifying unit specifies the tare on the basis of the detected size of the tare.A goods weight calculation unit subtracts a weight of the specified tare from a weight value of an object to be weighed, to calculate a weight of goods.A label issuing unit issues a label on which a price of the goods based on the weight of the goods is expressed.The label issuing unit issues two labels L11 and L12 when a vessel C being a first tare and a vessel C being a second tare are placed on weighing parts 11, 211, and 311.A price corresponding to a total value of weights of goods is expressed on one label L11, and information linked with the one label L11 is expressed on the other label L12.

Inventors

YAMAGUCHI YASUSHI

TSUGAWA YUKINO

OTA KOICHI

AOYAMA KENGO

MATSUURA YOSHIKI

ISHIBASHI TAKESHI

TANAKA MASATSUGU

Latest standardized assignees - inventors removed

ISHIDA

Publication dates

2014-05-29

2015-12-09

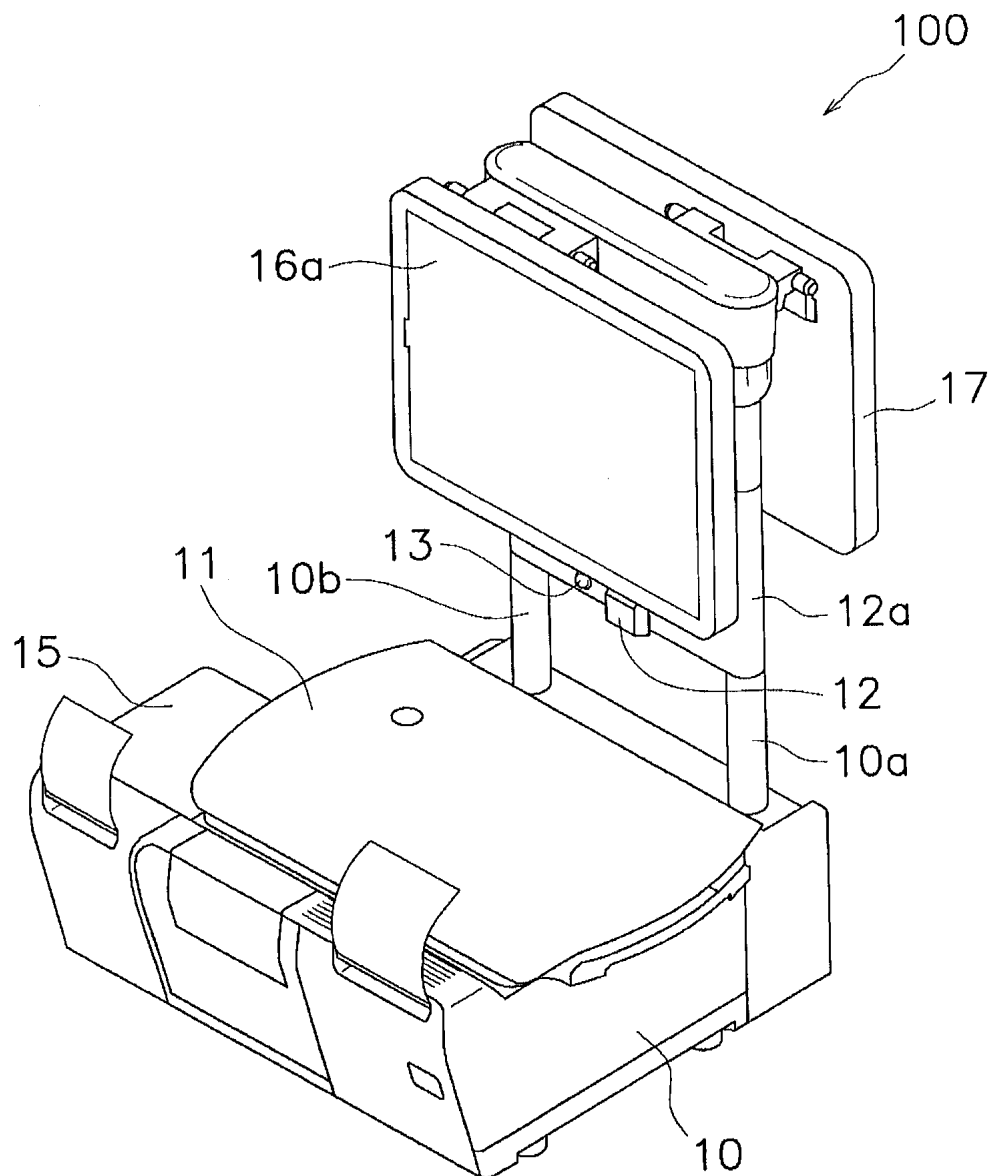
Family 3/13 - FAMPAT - ©Questel

Title

(EP2594911)

Weighing device

Images



Publication data including kind & date

EP2594911	A2	2013-05-22	EP2594911
US2013126248	A1	2013-05-23	US20130126248
JP2013108817	A	2013-06-06	JP2013108817
EP2594911	A3	2013-09-25	EP2594911
JP5824340	B2	2015-11-25	JP5824340



Abstract

(EP2594911)

A weighing device includes a weighing unit, a **camera**, an identifying unit, a product weight calculation unit, a label printer unit, a person sensor and a shopper-side notification unit. The weighing unit measures weight of a container and a product therein selected by a shopper to produce a weight value. The **camera** detects the size of the container. The identifying unit identifies the container based on size. The product weight calculation unit subtracts weight of the identified container from the weight value to calculate the weight of a product. The label printer unit prints a label displaying the price of the product based on the weight of the product. The person sensor detects whether or not the shopper is present at the weighing device. The shopper-side notification unit guides the shopper through purchasing and label printing in response to the person sensor detecting the presence of the shopper.

Inventors

YAMAGUCHI YASUSHI

TANAKA MASATSUGU

ISHIDA

Publication dates

2015-11-25

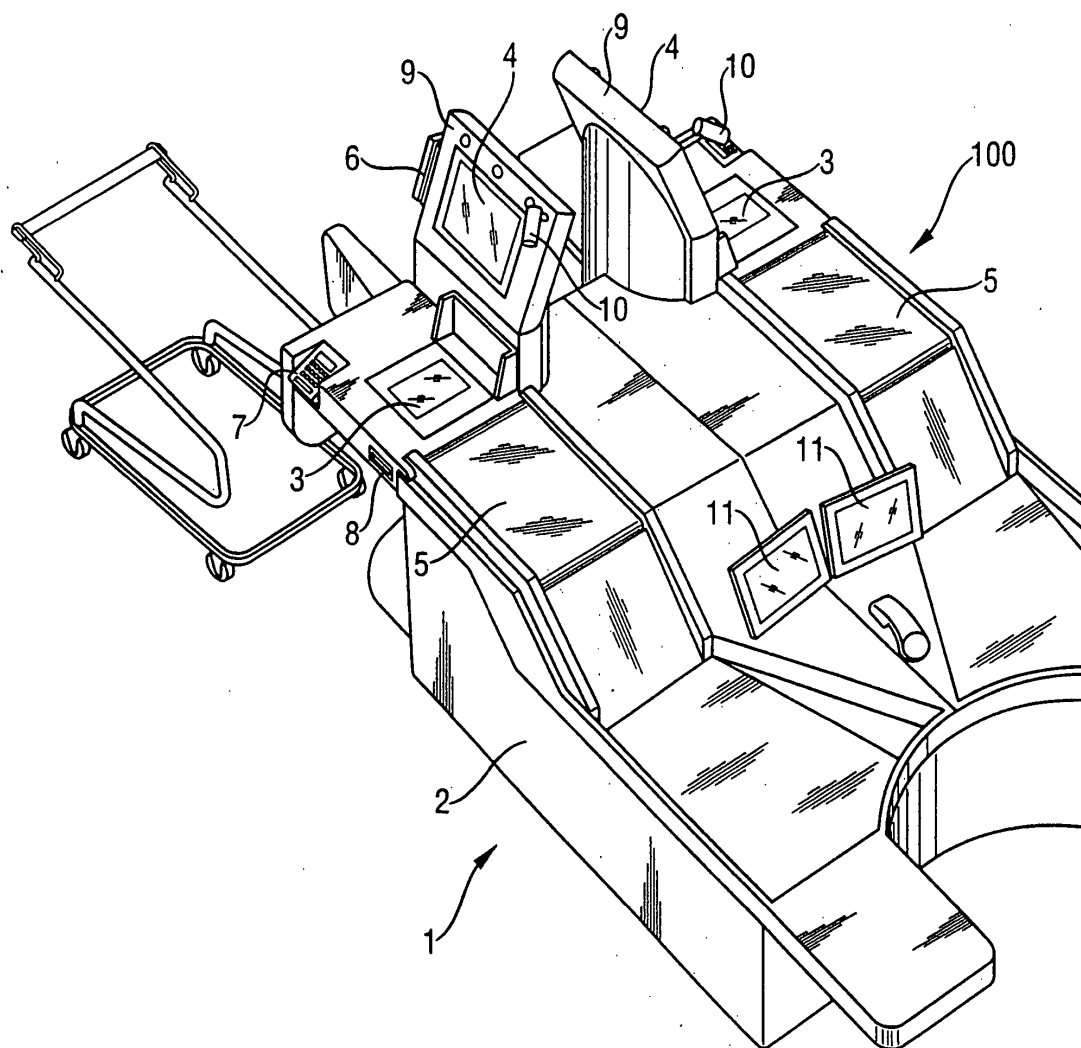
Family 4/13 - FAMPAT - ©Questel

Title

(EP1476056)

Self-service product detection station

Images



Publication data including kind & date

WO200371903



DE10207568	A1	2003-09-11	DE10207568				
EP1476056	A1	2004-11-17	EP1476056				
US2005145693	A1	2005-07-07	US20050145693				
DE20221668	U1	2006-11-23	DE20221668				
EP1476056	B1	2007-06-20	EP1476056				
DE50307514	D1	2007-08-02	DE50307514				
ES2287449	T3	2007-12-16	ES2287449				

Abstract

(EP1476056)

The invention relates to the secure and fast deferred detection of unscanned items at self-service product detection stations. A **camera** (10) is mounted on the weighing scale (5) in order to be able to detect unscanned items. The **camera** is activated when the weighing scale indicates a change in weight without an item having been scanned. The **camera** detects the last item that has been placed on the weighing scale and transmits the image thereof to the display (11) of an operator, who receives information about the item that has not been scanned and can ask the customer to retroactively detect the item that has accidentally not been detected.

Inventors

BAITZ GUENTER

SOMMER HEINZ

Latest standardized assignees - inventors removed

WINCOR NIXDORF INTERNATIONAL

Publication dates

2003-09-04

2003-09-11

2004-11-17

2005-07-07

2006-11-23

2007-06-20

2007-08-02

2007-12-16

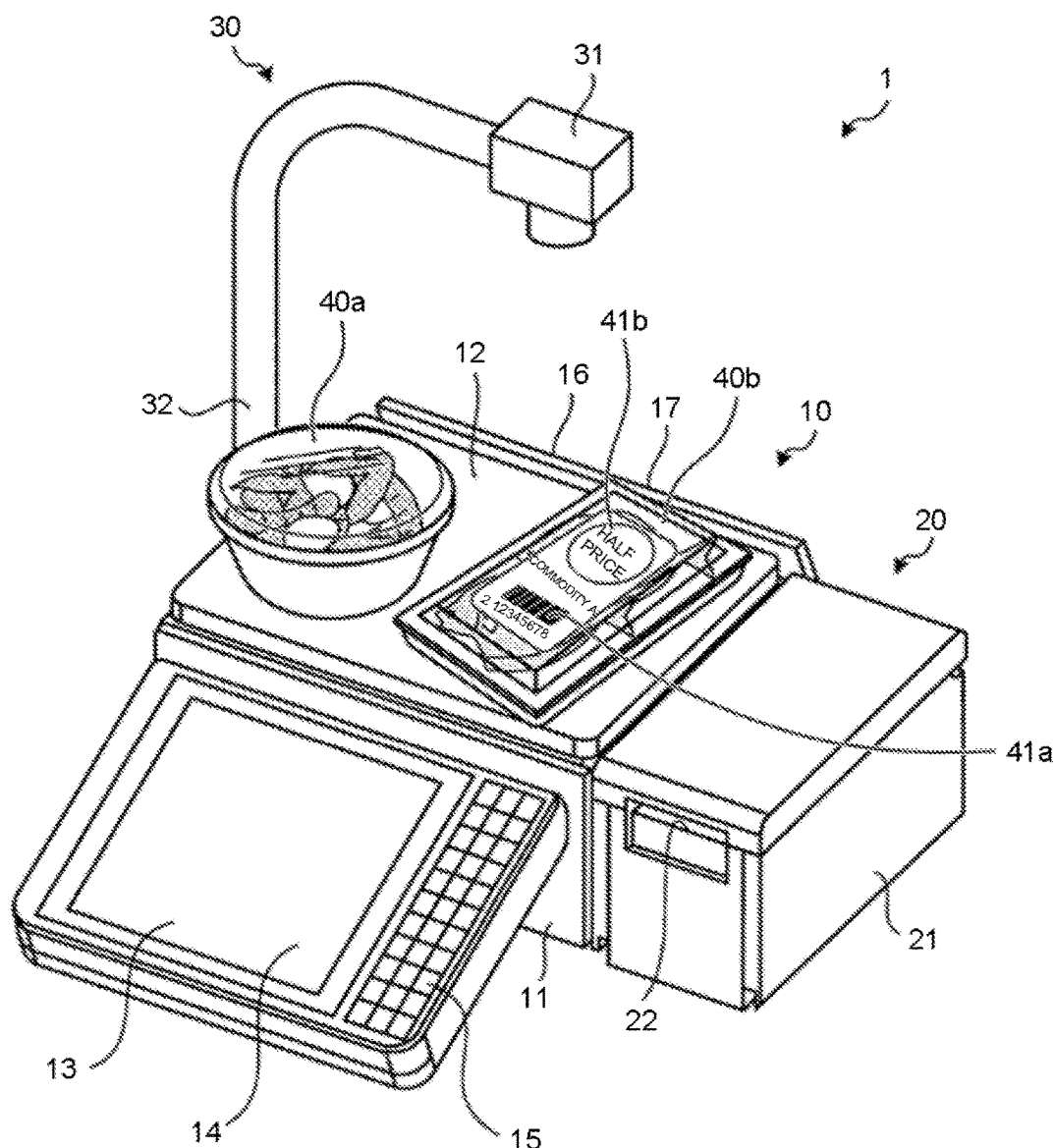
Family 5/13 - FAMPAT - ©Questel

Title

(EP3211388)

Weighing system

Images



Publication data including kind & date

EP3211388	A1	2017-08-30	EP3211388
US2017249617	A1	2017-08-31	US20170249617
CN107131940	A	2017-09-05	CN107131940
JP2017156140	A	2017-09-07	JP2017156140



Abstract

(EP3211388)

A weighing system comprises a weighing section, an image capturing section, an identification module, a reading module and a first calculation module. The weighing section measures a weight of a container and a commodity in the container. The image capturing section photographs the container weighed by the weighing section and commodity information including information indicating the weight of the commodity in the container. The identification module identifies the weight of the container contained in the image captured by the image capturing section. The reading module reads the weight from the commodity information contained in the image captured by the image capturing section. The first calculation module calculates the weight of an unmeasured commodity from the weight measured by the weighing section, the weight in a category of the container identified by the identification module and the weight read from the commodity information by the reading module.

Inventors

OKAMURA ATSUSHI

Latest standardized assignees - inventors removed

TOSHIBA TEC

Publication dates

2017-08-30

2017-08-31

2017-09-05

2017-09-07

Family 6/13 - FAMPAT - ©Questel

Title

(EP1898375)

Self-checkout terminal

Images

JP2012048742	A	2012-03-08	JP2012048742				
US8239268	B2	2012-08-07	US8239268				
US2013006787	A1	2013-01-03	US20130006787				
US8577729	B2	2013-11-05	US8577729				
JP5547166	B2	2014-07-09	JP5547166				

Abstract

(EP1898375)

An article code reading device for optically reading a code symbol affixed to an article and specifying the article, for decoding an article code, and for outputting the article code, a pickup image part for picking up an image of an area where an article, the code symbol of which is read by the article code reading device, and for outputting a pickup image data, and an alarming device for generating an alarm are provided, and an article registration process is executed by searching an article data file, which stores a price corresponding to each article code, for a corresponding price when the article code reading device reads a code symbol, an extraction process is executed for extracting an exterior characteristic of an article from a pickup image data outputted by the pickup image part, a consistency is determined between a first data which is obtained based on the extraction process and a second data which is obtained based on an output from the article code reading device and which should be matched to the first data, and the alarming device generates an alarm when it is determined that there is not a consistency between the first data and the second data.

Inventors

IIZAKA HITOSHI

YAMADA YOSHIYA

TSUCHIYA OSAMU

KURIHARA NORIHIKO

Latest standardized assignees - inventors removed

TOSHIBA TEC

Publication dates

2008-01-31

2008-02-07

2008-03-12

2008-04-09

2010-04-14

2012-02-15

2012-03-08

2012-08-07

2013-01-03

2013-11-05

2014-07-09

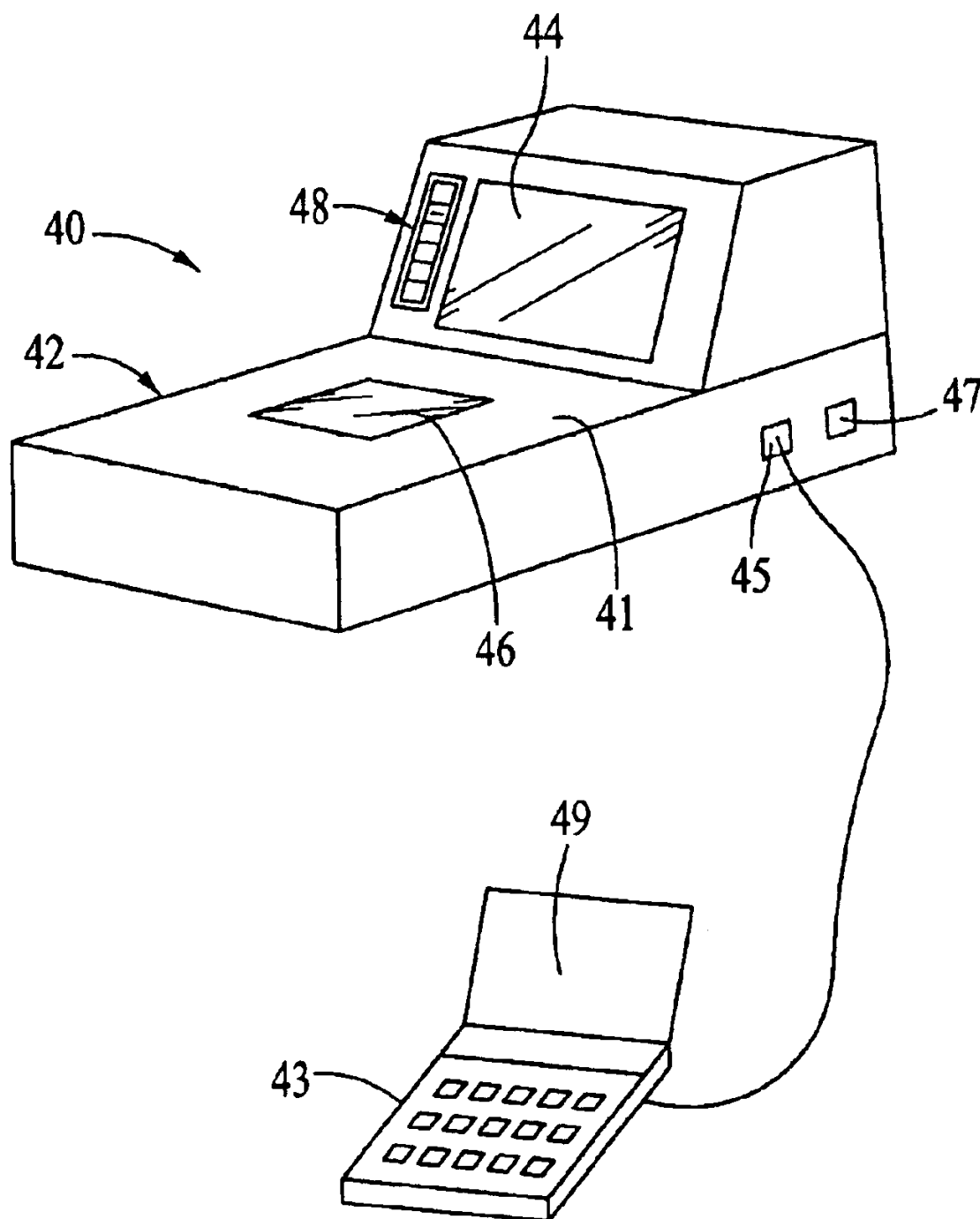
Family 7/13 - FAMPAT - ©Questel

Title

(EP1330772)

System and method for training and monitoring data reader operators

Images


Publication data including kind & date

WO200233647	A1	2002-04-25	WO200233647
US2002074402	A1	2002-06-20	US2002074402
EP1330772	A1	2003-07-30	EP1330772
WO200233647	A9	2003-10-16	WO200233647
US6857567	B2	2005-02-22	US6857567
US2005092834	A1	2005-05-05	US2005092834
EP1330772	A4	2005-11-02	EP1330772
EP1330772	B1	2007-01-17	EP1330772
DE60126118	D1	2007-03-08	DE60126118
DE60126118	T2	2007-08-16	DE60126118
US2008164309	A1	2008-07-10	US20080164309
US7407096	B2	2008-08-05	US7407096
US7562817	B2	2009-07-21	US7562817



Abstract

(EP1330772)

A scanner (40) or other data reader is equipped with a device for determining characteristics of an operator's scanning technique. In a preferred configuration, the scanner (40) is integrated with a weigh scale (41) for obtaining a dynamic weight of an item as the item is moved across the weigh scale (41). Weight data produced by the scanning/weighing process includes information about the amount of lifting the operator performs on scanned items, the rate of scanning by the operator, and rescanning information. The scanner (40) may be connected to a PC-based training system (43) which uses the scanning technique information to provide feedback to the operator indicating the effectiveness of the operator's scanning technique, and may also provide information to management for analysis. The technique information may be collected by a store controller or other suitable collection device for later analysis and reporting.

Inventors

LATIMER DAVID L

CHERRY CRAIG D

MCQUEEN ALEXANDER M

Latest standardized assignees - inventors removed

DATALOGIC SCANNING

Publication dates

2002-04-25

2002-06-20

2003-07-30

2003-10-16

2005-02-22

2005-05-05

2005-11-02

2007-01-17

2007-03-08

2007-08-16

2008-07-10

2008-08-05

2009-07-21

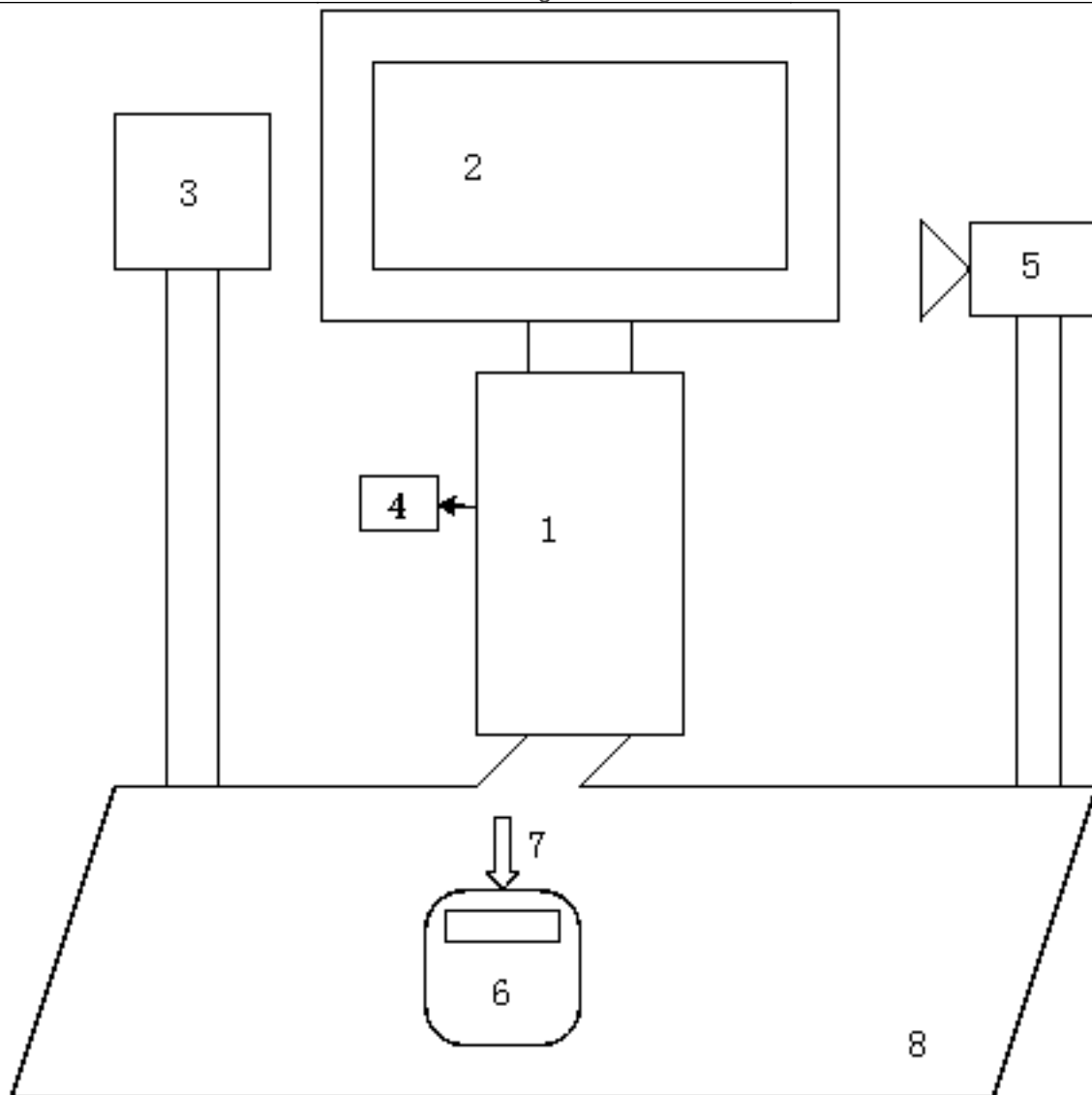
Family 8/13 - FAMPAT - ©Questel

Title

(CN104792398)

Integrated scale based on fruit and vegetable identification

Images

**Publication data including kind & date**

CN104792398

A 2015-07-22 CN104792398

**Abstract**

(CN104792398)

The invention relates to an integrated scale based on fruit and vegetable identification. Data analysis is made based on an image acquired by a **camera** on a scale platform, and the category of fruits and vegetables is identified by an algorithm module. Product information on labels of fruits and vegetables is read by an RFID reader, and the product information and the data information of the **camera** complement each other. Weight information of an object is obtained by a weighing sensor and then is multiplied with the internal price, purchasing information and object information source are printed and output, a data judgment returned by the sensor is analyzed, and corresponding information is output. By adopting the integrated scale, customers can remotely watch the weighing process online, the whole operation can be remotely accessed online and in real time, and through a lot of data accumulation and analysis, more application expansion can be carried out at a mobile phone client. The integrated scale of the invention combines video processing and radio frequency processing technologies, can save manpower and material resources, and thus, produces huge economic benefits and social benefits.

Inventors

WANG YANQING

SHI CHAOXIA

ZHUANG LULU

Latest standardized assignees - inventors removed

HARBIN UNIVERSITY OF SCIENCE & TECHNOLOGY

Publication dates

2015-07-22

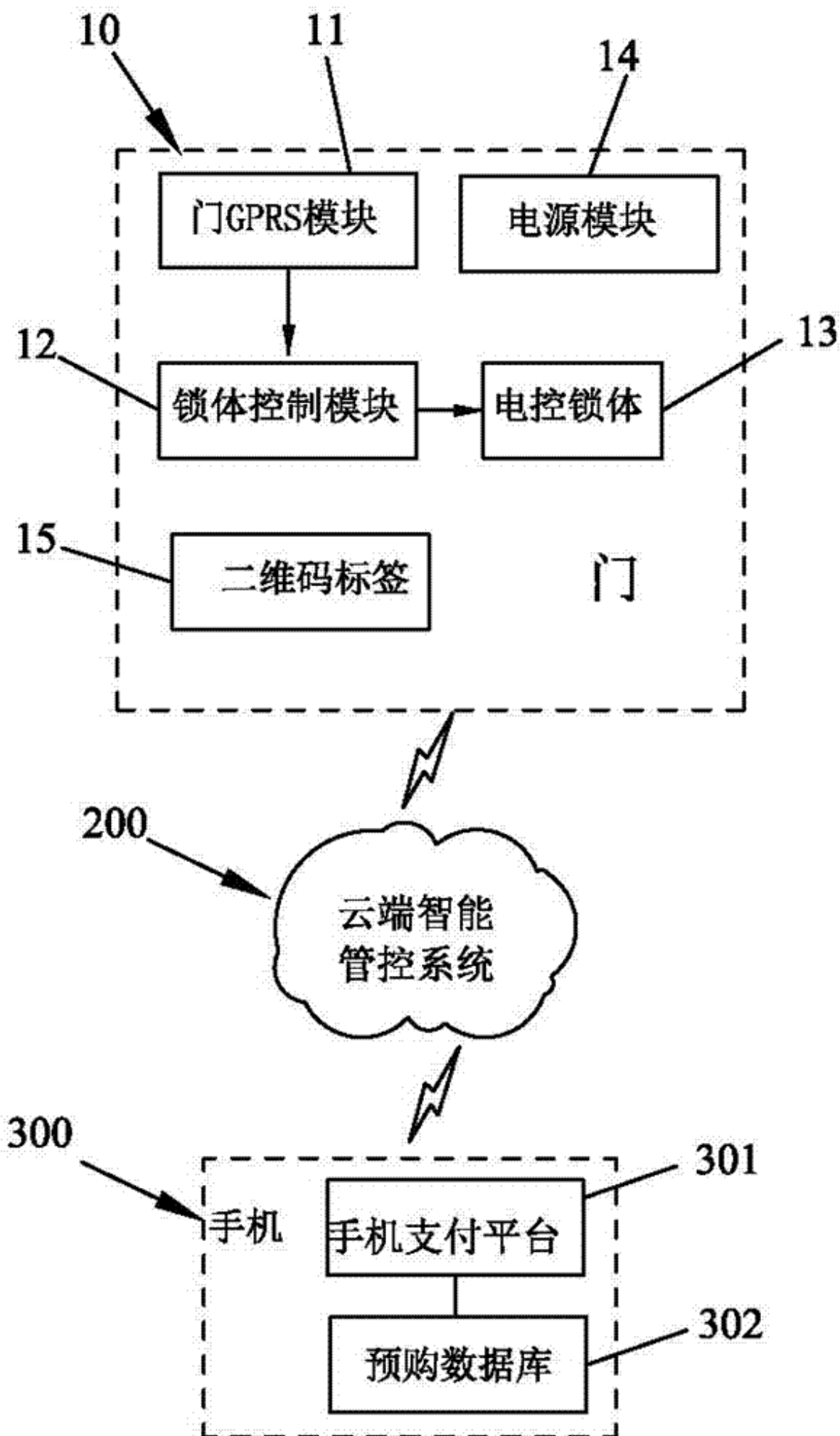
Family 9/13 - FAMPAT - ©Questel

Title

(CN207337465U)

Intelligent management and control an unmanned store one cloud

Images



Publication data including kind & date

CN207337465

U 2018-05-08

CN207337465U

**Abstract**

(CN207337465U)

The present utility model discloses an intelligent management and control an unmanned store cloud, an unmanned shop includes a smart entry system, a machine vision system, an intelligent weighing system, using the barcode scanning enter a smart entry system, payment platform automatically switched on after the barcode scanning, machine vision system of the camera to configure a plurality of high-definition to the shop is periodically monitored seamlessly Omni; a machine vision system and an intelligent learning application based on the depth of the weighing system, accurate matching the customer's choosing a commodity, the mobile payment platform database prebuy placed, without waiting for settlement, through the mobile payment platform and the settlement method is a commodity database prebuy automatic settlement, achieve true "which then takes hold" mode, saves time and power, a conventional in-line settlement mode farewell.

Inventors

ZHOU XINXIANG

LIU WEI

JIANG WENXUE

ZHU JIANAN

Latest standardized assignees - inventors removed

GUANGXI ALLIANCE COMMERCIAL ROBOT TECHNOLOGY

Publication dates

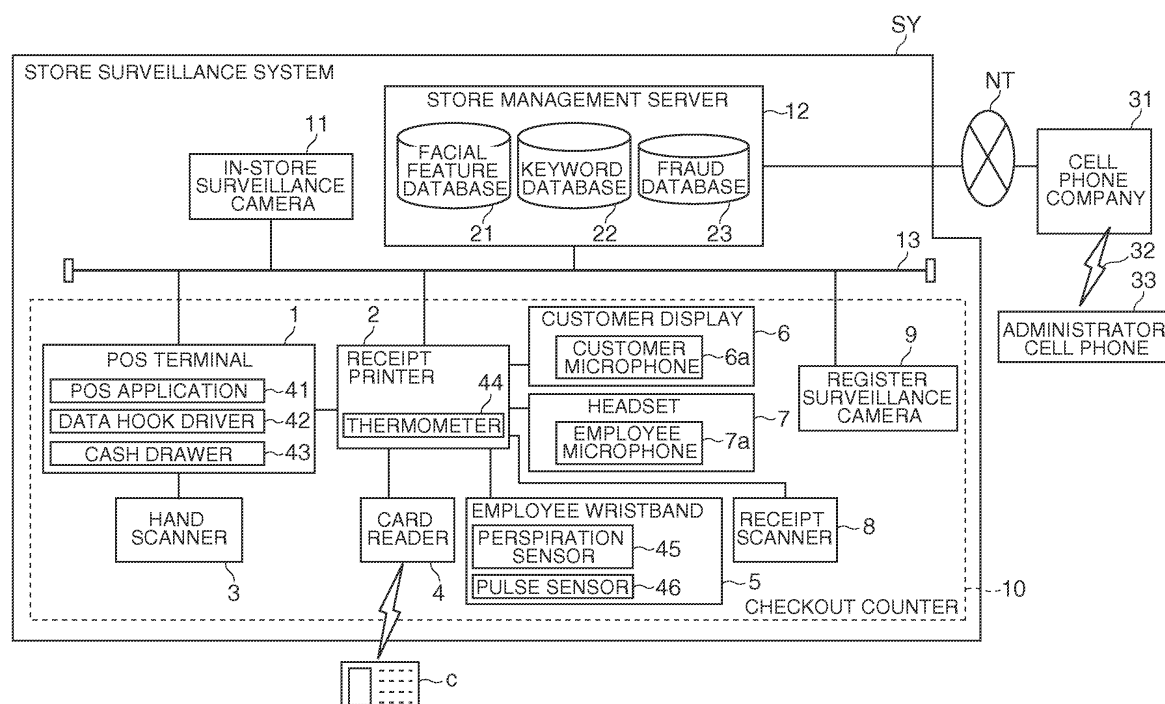
2018-05-08

Family 10/13 - FAMPAT - ©Questel

Title

(EP2343676)

Degree of fraud calculating device, control method for a degree of fraud calculating device, and store surveillance system

Images**Publication data including kind & date**

US2011131105

A1 2011-06-02

US20110131105

JP2011118583

A 2011-06-16

JP2011118583

EP2343676

A2 2011-07-13

EP2343676



[CN102129748](#)

A 2011-07-20 CN102129748

[EP2343676](#)

A3 2012-02-01 EP2343676

Abstract

(EP2343676)

A degree of fraud calculating device, a control method for a degree of fraud calculating device, and a store surveillance system can detect fraudulent activity with a high degree of accuracy. A fraud pattern storage unit 71 that stores a fraud pattern, which sets a basic score that is a weight factor for one or more elements of fraud anticipated in the store; a fraud detection unit 72 that detects if one or more the fraud elements occur; a degree of fraud calculating unit 73 that calculates a degree of fraud by summing the basic scores of the fraud elements detected by the fraud detection unit to have occurred; and a degree of fraud recorder 74 that records the calculated results output by the degree of fraud calculator 73 in a fraud database 23.

Inventors

AONUMA MASASHI

NAKAMURA JINICHI

HAMA TAKASHI

YOSHIZAWA JUNICHI

Latest standardized assignees - inventors removed

SEIKO EPSON

Publication dates

2011-06-02

2011-06-16

2011-07-13

2011-07-20

2012-02-01

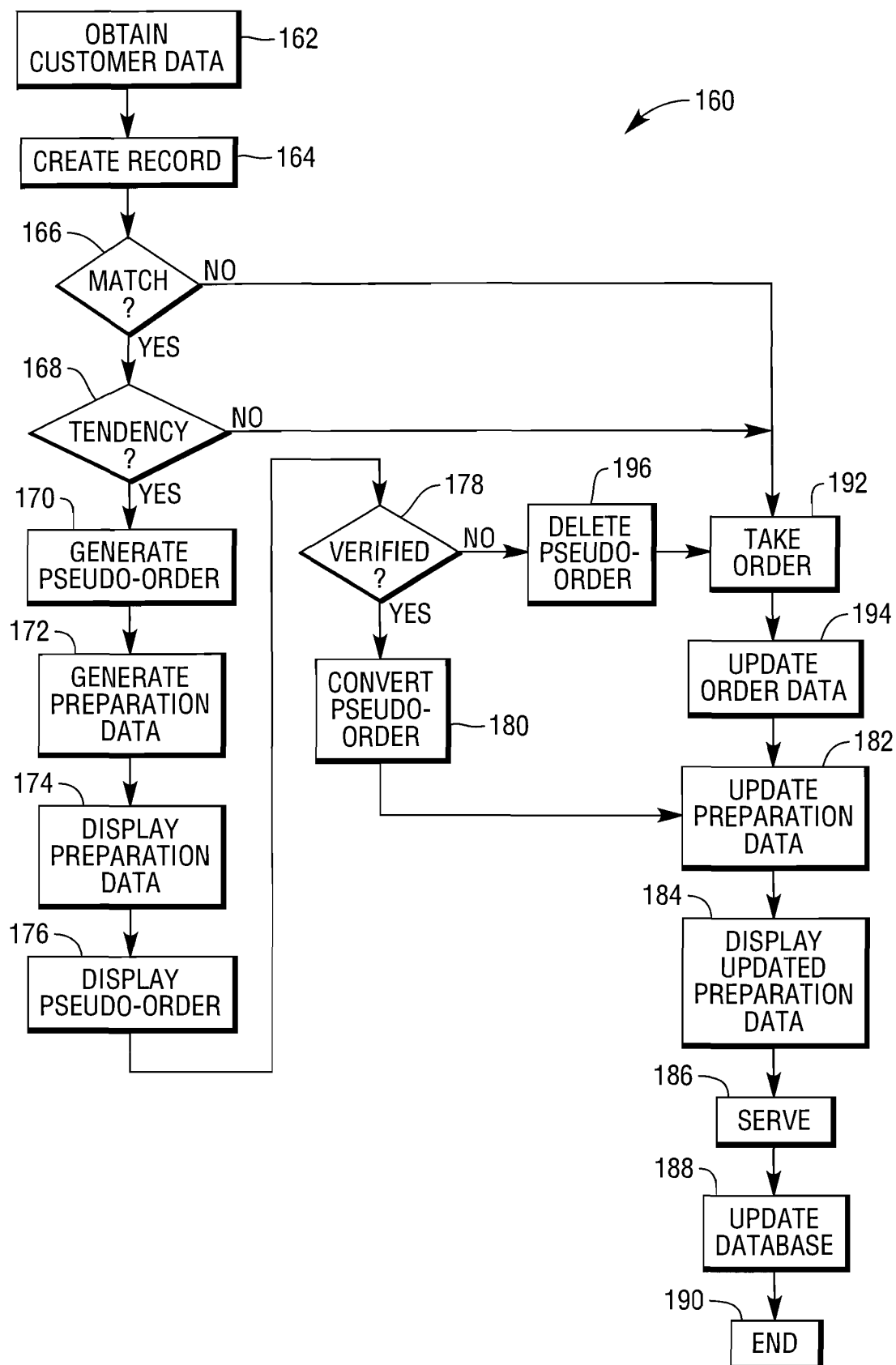
Family 11/13 - FAMPAT - ©Questel

Title

(US8175917)

Method and apparatus for customer specific based food preparation prediction

Images


Publication data including kind & date

[US2009265216](#) A1 2009-10-22 US20090265216
[US8175917](#) B2 2012-05-08 US8175917


Abstract

(US8175917)

A food preparation predicting system and method in one embodiment includes a detector for obtaining customer

information, a memory including program instructions for obtaining customer information from the detector, associating the customer information with stored customer specific preference information, generating a pseudo-order based upon the associated preference information, generating food preparation information based upon the pseudo-order, and displaying the food preparation information, and a processor operably connected to the camera and the memory for executing the program instructions.

Inventors

FLYNN TRACY L

PASHA ALAA E

Latest standardized assignees - inventors removed

NCR

Publication dates

2009-10-22

2012-05-08

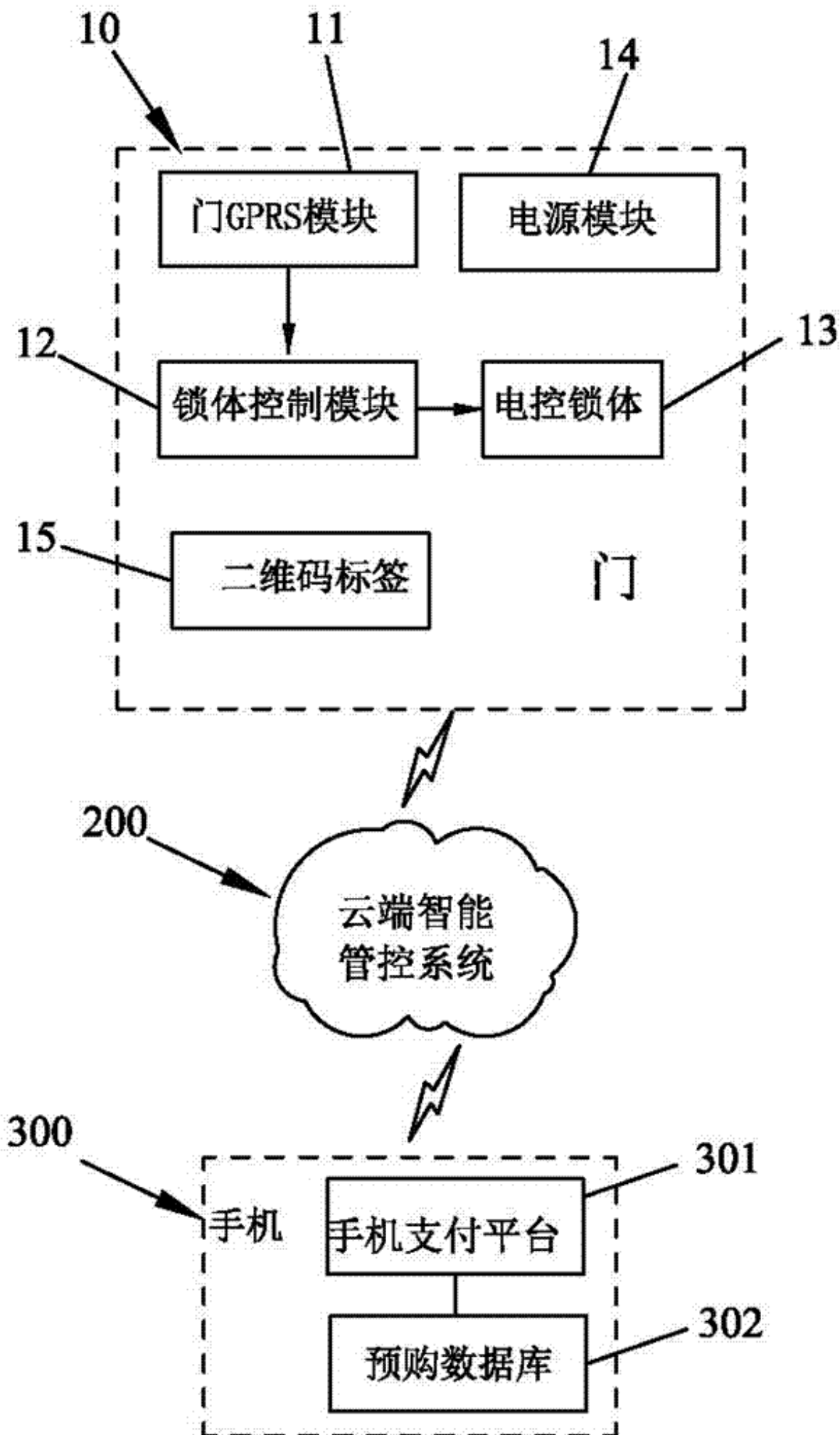
Family 12/13 - FAMPAT - ©Questel

Title

(CN107330684)

Cloud intelligent management and control unmanned shop and automatic settlement method thereof

Images



Publication data including kind & date[CN107330684](#)

A 2017-11-07 CN107330684

**Abstract**

(CN107330684)

The invention discloses a cloud intelligent management and control unmanned shop and an automatic settlement method thereof. The unmanned shop comprises an intelligent entrance guard system, a machine visual system and an intelligent weighing system. The intelligent entrance guard system adopts a manner that a person enters a door after scanning a code, a mobile phone payment platform is automatically opened after the code is scanned, and the machine visual system provided with a plurality of high-definition pick-up heads performs omni-direction no-dead-angle real-time monitoring on the shop. The machine visual system based on deep learning and the intelligent weighing system are applied to accurately match goods selected by a customer, the goods are placed into a pre-ordered database of the mobile phone payment platform, settlement can be performed without waiting, a settlement mode is automatic settlement for the goods in the pre-ordered database through the mobile phone payment platform, a real grab-and-go mode is achieved, the automatic settlement mode is time-saving and labor-saving, and people can bid farewell to a traditional queuing settlement mode.

Inventors

ZHOU XINXIANG

LIU WEI

JIANG WENXUE

ZHU JIANAN

Latest standardized assignees - inventors removed

GUANGZHOU LIANYE COMMERCIAL ROBOT TECHNOLOGY

Publication dates

2017-11-07

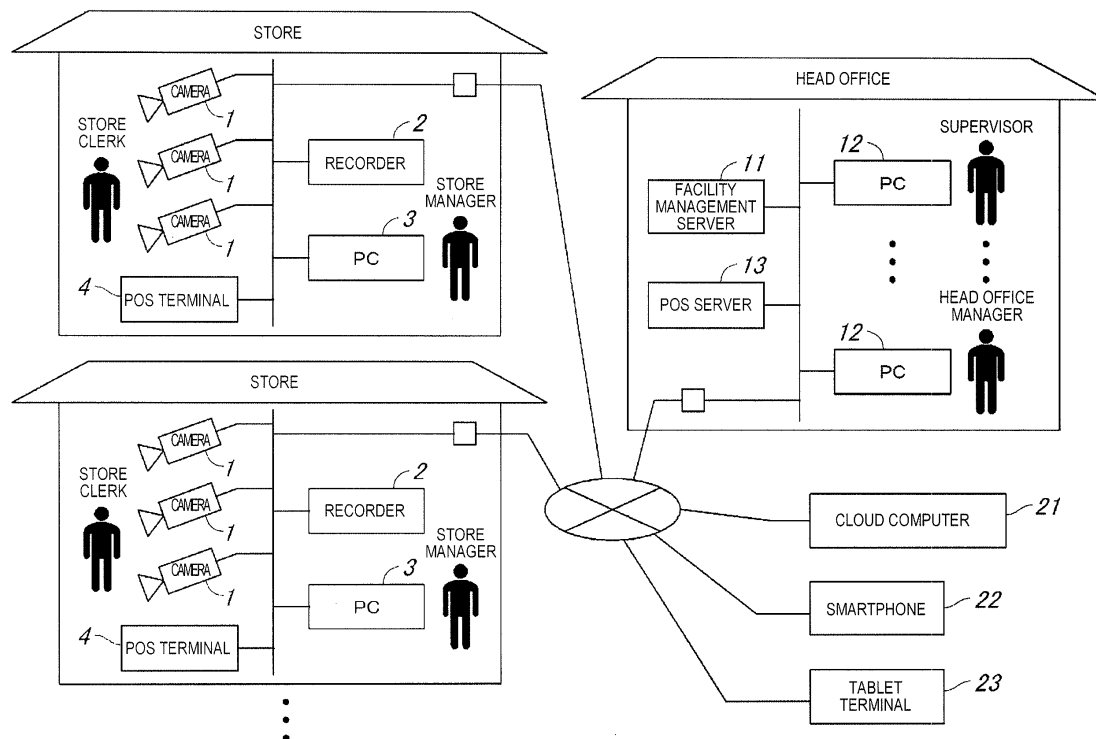
Family 13/13 - FAMPAT - ©Questel

Title

(WO201667494)

Facility management assistance device, facility management assistance system, and facility management assistance method

Images



Publication data including kind & date

JP5866542	B1	2016-02-17	JP5866542
WO2016067494	A1	2016-05-06	WO201667494
JP2016085688	A	2016-05-19	JP2016085688
US2017308843	A1	2017-10-26	US20170308843



Abstract

(WO201667494)

In the present invention, a facility management assistance device comprises the following: a video extraction unit that extracts video of a target area from video in which the inside of a facility is captured; a video presentation unit that presents the video of the target area to a first user; an individual evaluation information acquisition unit that acquires, in response to an input by the first user, individual evaluation information which pertains to evaluation results in the target area; an evaluation aggregate information generation unit that aggregates individual evaluation information in a designated time period, and generates evaluation aggregate information for displaying the evaluation results in the prescribed time period in a list; an evaluation aggregate information presentation unit that presents the evaluation aggregate information to a second user; an improvement execution information acquisition unit that acquires, in response to an input by the second user, improvement execution information pertaining to the execution state of improvement measures; and an improvement execution information presentation unit that presents the improvement execution information to the first user.

Inventors

IWAI KAZUHIKO

Latest standardized assignees - inventors removed

PANASONIC INTELLECTUAL PROPERTY MANAGEMENT

Publication dates

2016-02-17

2016-05-06

2016-05-19

2017-10-26

4 Documents

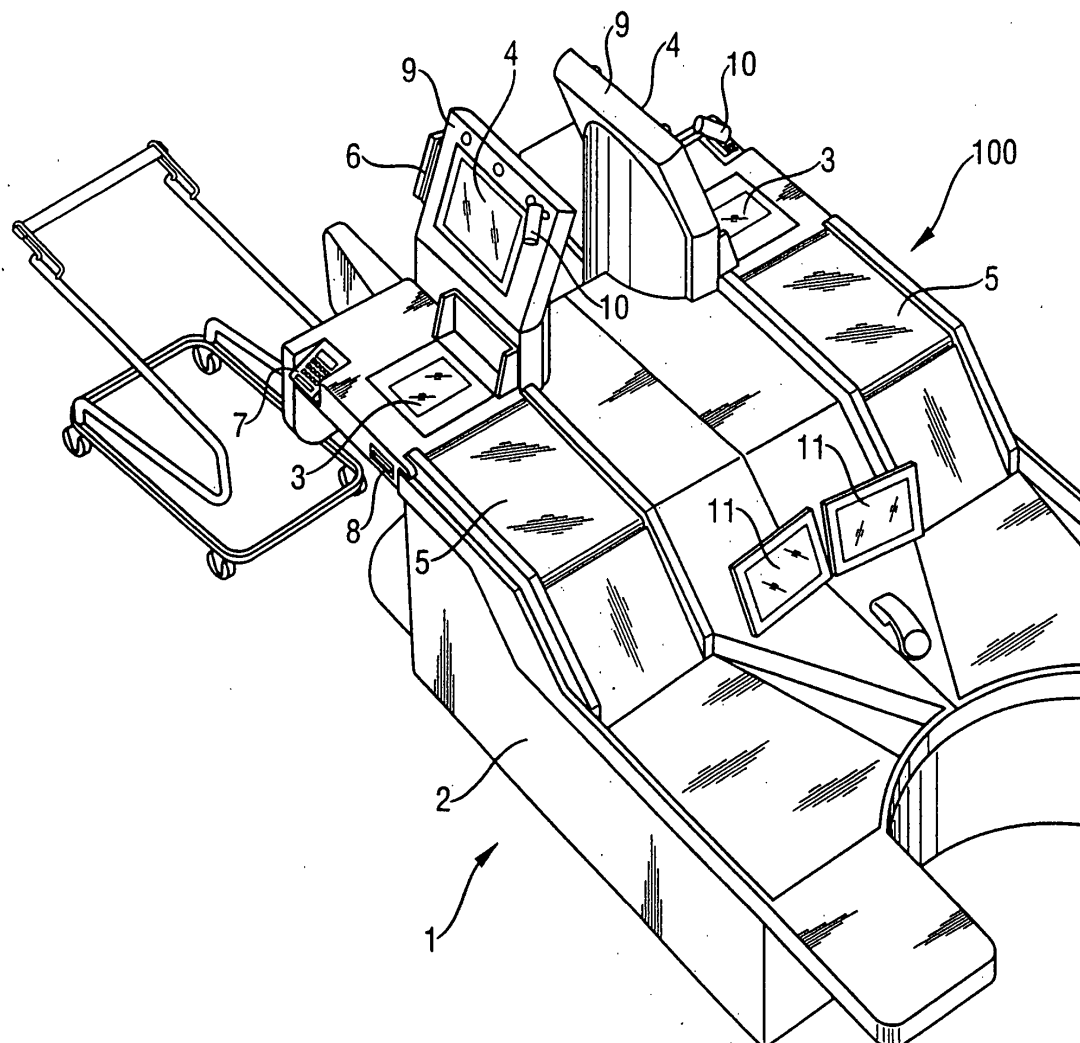
Publication numbers	Title	Current assignees
WO200371903 A1	Self-service product detection station	WINCOR NIXDORF INTERNATIONAL
JP2000341657 A	Wireless television telephone and electronic shopping system and transaction processing executing method	FUJITSU
US20080027817 A1	Self-checkout terminal	TOSHIBA TEC
US20110131105 A1	Degree of fraud calculating device, control method for a degree of fraud calculating device, and store surveillance system	SEIKO EPSON

Family 1/4 - FAMPAT - ©Questel

Title

(EP1476056)

Self-service product detection station

Images**Publication data including kind & date**

WO03071903	A1	2003-09-04	WO200371903
DE10207568	A1	2003-09-11	DE10207568
EP1476056	A1	2004-11-17	EP1476056
US2005145693	A1	2005-07-07	US20050145693
DE20221668	U1	2006-11-23	DE20221668
EP1476056	B1	2007-06-20	EP1476056
DE50307514	D1	2007-08-02	DE50307514
ES2287449	T3	2007-12-16	ES2287449

**Abstract**

(EP1476056)

The invention relates to the secure and fast deferred detection of unscanned items at self-service product detection stations. A **camera** (10) is mounted on the weighing scale (5) in order to be able to detect unscanned items. The **camera** is activated when the weighing scale indicates a change in **weight** without an item having been scanned. The **camera** detects the last item that has been placed on the weighing scale and transmits the image thereof to the display (11) of an operator, who receives information about the item that has not been scanned and can ask the customer to retroactively detect the item that has accidentally not been detected.

Inventors

BAITZ GUENTER

SOMMER HEINZ

Latest standardized assignees - inventors removed

WINCOR NIXDORF INTERNATIONAL

Publication dates

2003-09-04

2003-09-11

2004-11-17

2005-07-07

2006-11-23

2007-06-20

2007-08-02

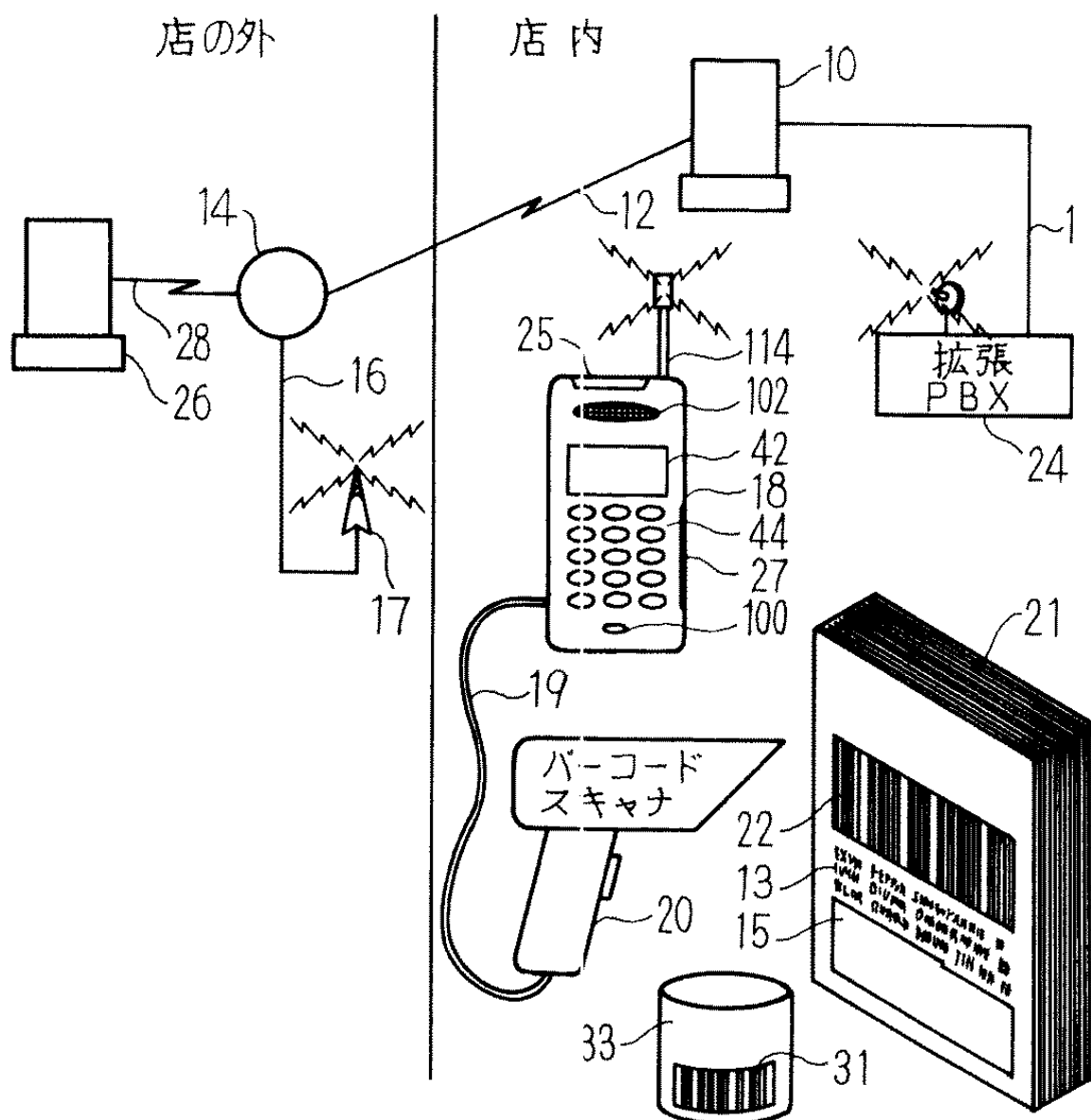
2007-12-16

Family 2/4 - FAMPAT - ©Questel

Title

(JP2000341657)

Wireless television telephone and electronic shopping system and transaction processing executing method

Images

Publication data including kind & date

JP2000341657	A	2000-12-08	JP2000341657
JP3780811	B2	2006-05-31	JP3780811

**Abstract**

(JP3780811)

PROBLEM TO BE SOLVED: To provide an electronic shopping system or a wireless television telephone for allowing a user to enjoy electronic shopping regardless of his or her **location**. SOLUTION: A wireless television telephone which can communicate with a store server 10 or a remote server **26** is used. A device for inputting a picture such as an outside bar code scanner 20 or an integrated digital **camera** 25 is mounted on the wireless television telephone 18. The already demodulated/non-demodulated bar code data are transmitted from the wireless television telephone 18 to servers 10 and **26**. The servers 10 and **26** retrieve data such as merchandise information or a price based on data from the wireless television telephone 18, and return the data to the wireless television telephone.

Inventors

OGASAWARA NOBUO

Latest standardized assignees - inventors removed

FUJITSU

Publication dates

2000-12-08

2006-05-31

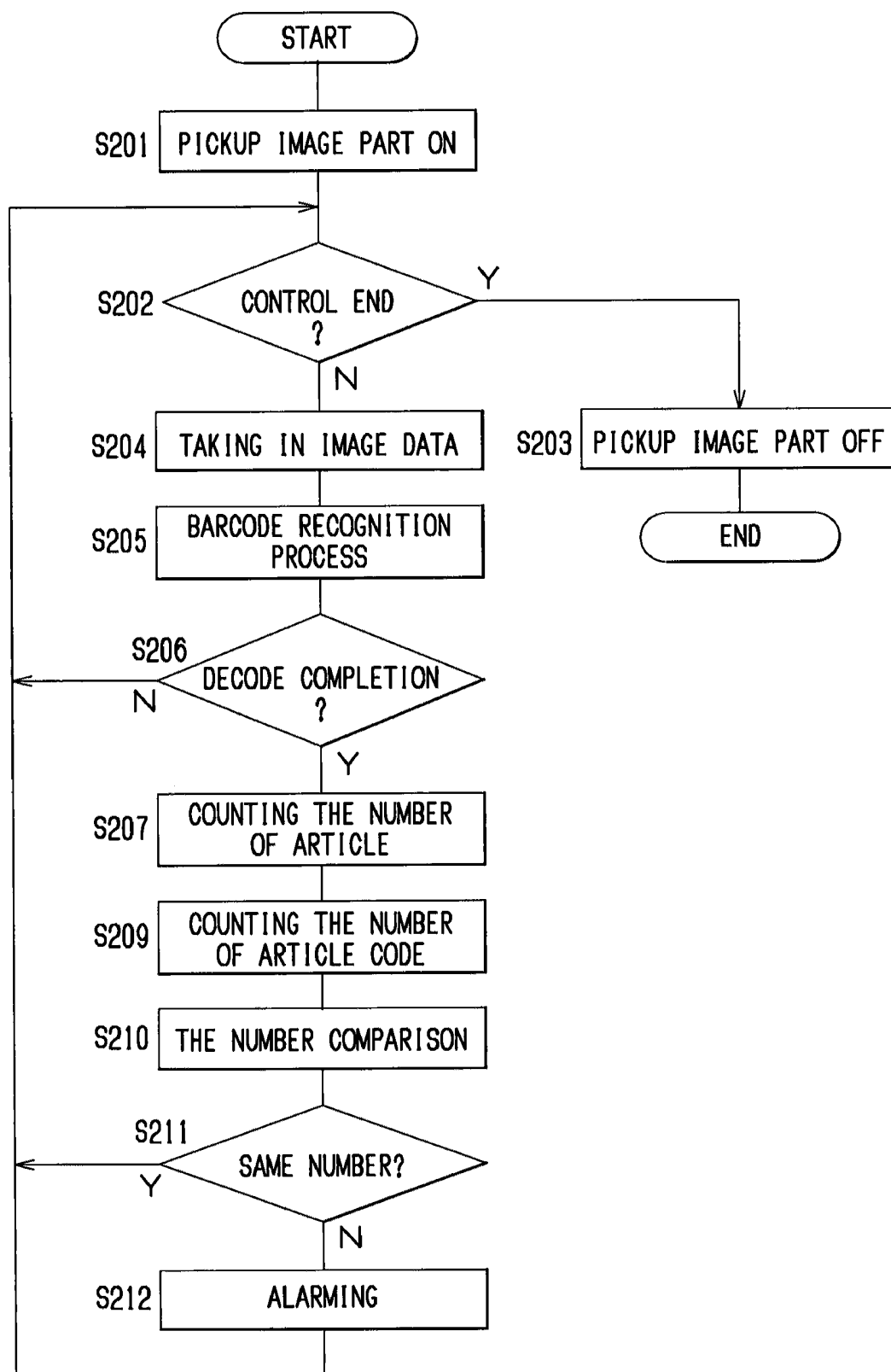
Family 3/4 - FAMPAT - ©Questel

Title

(EP1898375)

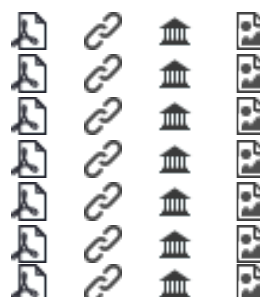
Self-checkout terminal

Images



Publication data including kind & date

US2008027817	A1	2008-01-31	US20080027817
JP2008027427	A	2008-02-07	JP2008027427
EP1898375	A1	2008-03-12	EP1898375
CN101159084	A	2008-04-09	CN101159084
CN101159084	B	2010-04-14	CN101159084B
JP4874166	B2	2012-02-15	JP4874166



JP2012048742	A	2012-03-08	JP2012048742				
US8239268	B2	2012-08-07	US8239268				
US2013006787	A1	2013-01-03	US20130006787				
US8577729	B2	2013-11-05	US8577729				
JP5547166	B2	2014-07-09	JP5547166				

Abstract

(EP1898375)

An article code reading device for optically reading a code symbol affixed to an article and specifying the article, for decoding an article code, and for outputting the article code, a pickup image part for picking up an image of an area where an article, the code symbol of which is read by the article code reading device, and for outputting a pickup image data, and an alarming device for generating an alarm are provided, and an article registration process is executed by searching an article data file, which stores a price corresponding to each article code, for a corresponding price when the article code reading device reads a code symbol, an extraction process is executed for extracting an exterior characteristic of an article from a pickup image data outputted by the pickup image part, a consistency is determined between a first data which is obtained based on the extraction process and a second data which is obtained based on an output from the article code reading device and which should be matched to the first data, and the alarming device generates an alarm when it is determined that there is not a consistency between the first data and the second data.

Inventors

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Latest standardized assignees - inventors removed

TOSHIBA TEC

Publication dates

2008-01-31

2008-02-07

2008-03-12

2008-04-09

2010-04-14

2012-02-15

2012-03-08

2012-08-07

2013-01-03

2013-11-05

2014-07-09

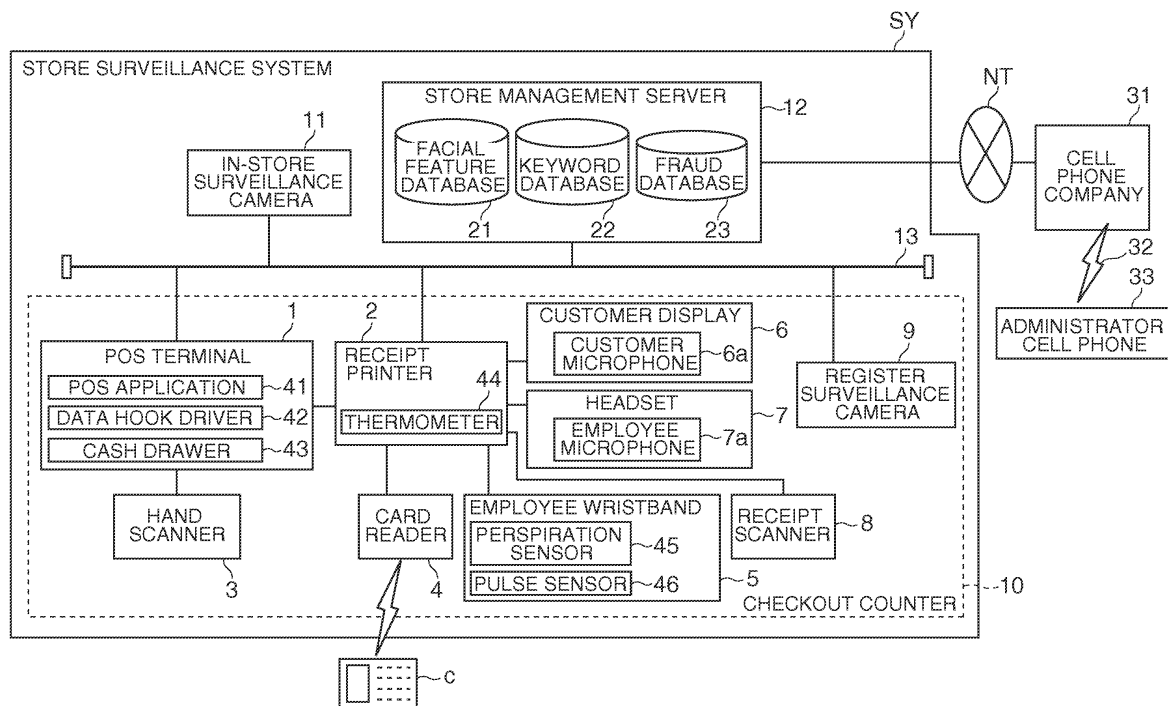
Family 4/4 - FAMPAT - ©Questel

Title

(EP2343676)

Degree of fraud calculating device, control method for a degree of fraud calculating device, and store surveillance system

Images



Publication data including kind & date

US2011131105	A1	2011-06-02	US20110131105
JP2011118583	A	2011-06-16	JP2011118583
EP2343676	A2	2011-07-13	EP2343676
CN102129748	A	2011-07-20	CN102129748
EP2343676	A3	2012-02-01	EP2343676



Abstract

(EP2343676)

A degree of fraud calculating device, a control method for a degree of fraud calculating device, and a store surveillance system can detect fraudulent activity with a high degree of accuracy. A fraud pattern storage unit 71 that stores a fraud pattern, which sets a basic score that is a **weight** factor for one or more elements of fraud anticipated in the store; a fraud detection unit 72 that detects if one or more the fraud elements occur; a degree of fraud calculating unit 73 that calculates a degree of fraud by summing the basic scores of the fraud elements detected by the fraud detection unit to have occurred; and a degree of fraud recorder 74 that records the calculated results output by the degree of fraud calculator 73 in a fraud database 23.

Inventors

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Latest standardized assignees - inventors removed

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Publication dates

2011-06-02
2011-06-16
2011-07-13
2011-07-20
2012-02-01

2 Documents

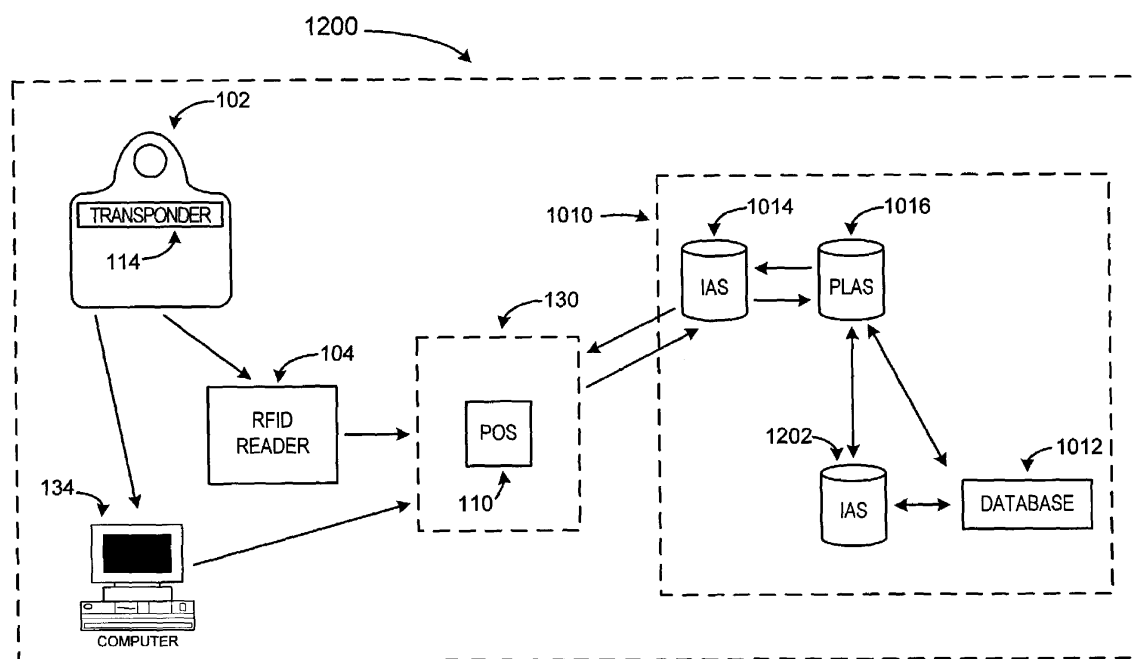
Publication numbers	Title	Current assignees
WO200307623 A2	Systems and methods for non-traditional payment	LIBERTY PEAK VENTURES
US20150006243 A1	Digital information gathering and analyzing method and apparatus	AZAPA R & D AMERICAS, ...

Family 1/2 - FAMPAT - ©Questel

Title

(EP1958121)

Systems and methods for non-traditional payment

Images**Publication data including kind & date**

WO03007623	A2	2003-01-23	WO200307623
CA2452351	A1	2003-01-23	CA2452351
WO03007623	A3	2003-04-10	WO200307623
WO03007623	B1	2003-07-31	WO200307623
US2003167207	A1	2003-09-04	US20030167207
WO2004006590	A2	2004-01-15	WO200406590
WO2004006162	A2	2004-01-15	WO200406162
WO2004006064	A2	2004-01-15	WO200406064
CA2458143	A1	2004-01-15	CA2458143
US2004010449	A1	2004-01-15	US20040010449
AU2003265262	A1	2004-01-23	AU2003265262
AU2003265262	A8	2004-01-23	AU2003265262
AU2003259100	A1	2004-01-23	AU2003259100
AU2003259100	A8	2004-01-23	AU2003259100
AU2003248849	A1	2004-01-23	AU2003248849
US2004049451	A1	2004-03-11	US20040049451
KR20040024867	A	2004-03-22	KR20040024867
KR20040028939	A	2004-04-03	KR20040028939
EP1413150	A2	2004-04-28	EP1413150
MXPA04000253	A	2004-05-04	MX2004PA000253
BR0210962	A	2004-06-08	BR200210962
BRPI0210962	A1	2004-06-08	BRPI0210962
WO2004006590	A3	2004-06-17	WO200406590
MXPA04000189	A	2004-06-18	MX2004PA000189



WO2004006162	A3	2004-07-01	WO200406162				
BR0304735	A	2004-07-06	BR200304735				
BRPI0304735	A1	2004-07-06	BRPI0304735				
CN1539246	A	2004-10-20	CN1539246				
US2004230488	A1	2004-11-18	US20040230488				
US2004236700	A1	2004-11-25	US20040236700				
US2004236699	A1	2004-11-25	US20040236699				
US2004232224	A1	2004-11-25	US20040232224				
US2004232222	A1	2004-11-25	US20040232222				
US2004232221	A1	2004-11-25	US20040232221				
US2004233037	A1	2004-11-25	US20040233037				
US2004233039	A1	2004-11-25	US20040233039				
US2004233038	A1	2004-11-25	US20040233038				
US2004236701	A1	2004-11-25	US20040236701				
US2004232220	A1	2004-11-25	US20040232220				
US2004232223	A1	2004-11-25	US20040232223				
JP2004535640	A	2004-11-25	JP2004535640				
US2004239481	A1	2004-12-02	US20040239481				
US2004239480	A1	2004-12-02	US20040239480				
US2004238621	A1	2004-12-02	US20040238621				
US2004252012	A1	2004-12-16	US20040252012				
US2004260646	A1	2004-12-23	US20040260646				
US2004257197	A1	2004-12-23	US20040257197				
EP1413150	A4	2004-12-29	EP1413150				
US2005004866	A1	2005-01-06	US20050004866				
US2005033689	A1	2005-02-10	US20050033689				
US2005033687	A1	2005-02-10	US20050033687				
US2005033619	A1	2005-02-10	US20050033619				
US2005033686	A1	2005-02-10	US20050033686				
US2005035847	A1	2005-02-17	US20050035847				
US2005038741	A1	2005-02-17	US20050038741				
US2005038718	A1	2005-02-17	US20050038718				
US2005038736	A1	2005-02-17	US20050038736				
US2005060233	A1	2005-03-17	US20050060233				
US2005071231	A1	2005-03-31	US20050071231				
US2005116810	A1	2005-06-02	US20050116810				
US2005116024	A1	2005-06-02	US20050116024				
WO2004006064	A3	2005-06-09	WO200406064				
US2005149544	A1	2005-07-07	US20050149544				
JP2005520269	A	2005-07-07	JP2005520269				
US2005160003	A1	2005-07-21	US20050160003				
US2005165695	A1	2005-07-28	US20050165695				
US2005171898	A1	2005-08-04	US20050171898				
EP1563421	A2	2005-08-17	EP1563421				
WO2005086894	A2	2005-09-22	WO200586894				
WO2005086897	A2	2005-09-22	WO200586897				
WO2005086676	A2	2005-09-22	WO200586676				
CN1682222	A	2005-10-12	CN1682222				

WO2005098737	A2	2005-10-20	WO200598737				
NZ530497	A	2005-11-25	NZ-530497				
WO2005098737	A3	2006-01-12	WO200598737				
US2006012473	A1	2006-01-19	US20060012473				
WO2006023198	A2	2006-03-02	WO200623198				
CA2578360	A1	2006-03-02	CA2578360				
AU2005277794	A1	2006-03-02	AU2005277794				
CA2836286	A1	2006-04-13	CA2836286				
WO2006039180	A2	2006-04-13	WO200639180				
CA2583402	A1	2006-04-13	CA2583402				
AU2005292417	A1	2006-04-13	AU2005292417				
WO2006041514	A1	2006-04-20	WO200641514				
CA2580485	A1	2006-04-20	CA2580485				
AU2005294782	A1	2006-04-20	AU2005294782				
US7059531	B2	2006-06-13	US7059531				
EP1563421	A4	2006-06-28	EP1563421				
WO2005086676	A3	2006-09-28	WO200586676				
US7119659	B2	2006-10-10	US7119659				
US7121471	B2	2006-10-17	US7121471				
US2006237528	A1	2006-10-26	US20060237528				
EP1728188	A2	2006-12-06	EP1728188				
WO2005086894	A3	2006-12-07	WO200586894				
US7154375	B2	2006-12-26	US7154375				
WO2006039180	A3	2007-03-01	WO200639180				
US2007052517	A1	2007-03-08	US20070052517				
JP2007066316	A	2007-03-15	JP2007066316				
KR100699954	B1	2007-03-27	KR100699954				
WO2007061433	A2	2007-05-31	WO200761433				
EP1794708	A2	2007-06-13	EP1794708				
US7239226	B2	2007-07-03	US7239226				
EP1805699	A1	2007-07-11	EP1805699				
US7249112	B2	2007-07-24	US7249112				
EP1815411	A2	2007-08-08	EP1815411				
JP2007220104	A	2007-08-30	JP2007220104				
US2007265964	A1	2007-11-15	US20070265964				
US7303120	B2	2007-12-04	US7303120				
AU2002318293	B2	2007-12-06	AU2002318293				
US7312707	B1	2007-12-25	US7312707				
US2007296544	A1	2007-12-27	US20070296544				
US2007299782	A1	2007-12-27	US20070299782				
US2007299783	A1	2007-12-27	US20070299783				
US2007296551	A1	2007-12-27	US20070296551				
US2008008359	A1	2008-01-10	US20080008359				
US2008010161	A1	2008-01-10	US20080010161				
US2008016002	A1	2008-01-17	US20080016002				
US2008015941	A1	2008-01-17	US20080015941				
US2008021840	A1	2008-01-24	US20080021840				
US2008033722	A1	2008-02-07	US20080033722				

CN100370838	C	2008-02-20	CN100370838C				
US2008046379	A1	2008-02-21	US20080046379				
US7360689	B2	2008-04-22	US7360689				
WO2008060290	A2	2008-05-22	WO200860290				
AU2006348401	A1	2008-05-22	AU2006348401				
CN101187989	A	2008-05-28	CN101187989				
US2008140580	A1	2008-06-12	US20080140580				
JP2008165810	A	2008-07-17	JP2008165810				
EP1958121	A2	2008-08-20	EP1958121				
WO2006023198	A3	2008-09-04	WO200623198				
US7463133	B2	2008-12-09	US7463133				
US2009044012	A1	2009-02-12	US20090044012				
US7500616	B2	2009-03-10	US7500616				
US7503480	B2	2009-03-17	US7503480				
WO2008060290	A3	2009-03-19	WO200860290				
US7506819	B2	2009-03-24	US7506819				
US7506818	B2	2009-03-24	US7506818				
US2009079546	A1	2009-03-26	US20090079546				
WO2005086897	A3	2009-04-02	WO200586897				
US2009091426	A1	2009-04-09	US20090091426				
US2009106157	A1	2009-04-23	US20090106157				
EP1815411	A4	2009-04-29	EP1815411				
WO2008060290	A4	2009-04-30	WO200860290				
US2009119220	A1	2009-05-07	US20090119220				
US2009125446	A1	2009-05-14	US20090125446				
US2009125401	A1	2009-05-14	US20090125401				
US7542942	B2	2009-06-02	US7542942				
EP1805699	A4	2009-06-03	EP1805699				
US2009140839	A1	2009-06-04	US20090140839				
WO2007061433	A3	2009-06-04	WO200761433				
US7543738	B1	2009-06-09	US7543738				
US2009153302	A1	2009-06-18	US20090153302				
US2009171851	A1	2009-07-02	US20090171851				
US7578448	B2	2009-08-25	US7578448				
CN101583968	A	2009-11-18	CN101583968				
JP2009301578	A	2009-12-24	JP2009301578				
US7637434	B2	2009-12-29	US7637434				
US7639116	B2	2009-12-29	US7639116				
US2010030633	A1	2010-02-04	US20100030633				
US2010030693	A1	2010-02-04	US20100030693				
US7668750	B2	2010-02-23	US7668750				
BRPI0304735	A2	2010-02-23	BR200304735				
US7690577	B2	2010-04-06	US7690577				
EP1794708	A4	2010-04-07	EP1794708				
US7694876	B2	2010-04-13	US7694876				
US7705732	B2	2010-04-27	US7705732				
US7725427	B2	2010-05-25	US7725427				
US7735725	B1	2010-06-15	US7735725				

US7746215	B1	2010-06-29	US7746215				
US7762457	B2	2010-07-27	US7762457				
US7768379	B2	2010-08-03	US7768379				
US2010201484	A1	2010-08-12	US20100201484				
US7780091	B2	2010-08-24	US7780091				
US7805378	B2	2010-09-28	US7805378				
EP1958121	A4	2010-09-29	EP1958121				
US2010257099	A1	2010-10-07	US20100257099				
US7814332	B2	2010-10-12	US7814332				
US2010265038	A1	2010-10-21	US20100265038				
US2010325041	A1	2010-12-23	US20100325041				
US7886157	B2	2011-02-08	US7886157				
US7889052	B2	2011-02-15	US7889052				
AU2005292417	B2	2011-03-31	AU2005292417				
US7925535	B2	2011-04-12	US7925535				
BRPI0210962	A2	2011-05-31	BR200210962				
AU2006348401	B2	2011-06-02	AU2006348401				
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AU2006348401	B8	2011-06-16	AU2006348401				
US2011161235	A1	2011-06-30	US20110161235				
US7988038	B2	2011-08-02	US7988038				
US7996324	B2	2011-08-09	US7996324				
US8001054	B1	2011-08-16	US8001054				
US8009018	B2	2011-08-30	US8009018				
US8016201	B2	2011-09-13	US8016201				
JP4777917	B2	2011-09-21	JP4777917				
EP1728188	A4	2011-10-26	EP1728188				
US2011270759	A1	2011-11-03	US20110270759				
US2011289001	A1	2011-11-24	US20110289001				
US8066181	B2	2011-11-29	US8066181				
US8074889	B2	2011-12-13	US8074889				
US2012084163	A1	2012-04-05	US20120084163				
US2012089469	A1	2012-04-12	US20120089469				
JP4934807	B2	2012-05-23	JP4934807				
US8260722	B2	2012-09-04	US8260722				
US8279042	B2	2012-10-02	US8279042				
US8284025	B2	2012-10-09	US8284025				
US8289136	B2	2012-10-16	US8289136				
US8294552	B2	2012-10-23	US8294552				
US2013024384	A1	2013-01-24	US20130024384				
US8423475	B2	2013-04-16	US8423475				
US8418918	B2	2013-04-16	US8418918				
JP2013137780	A	2013-07-11	JP2013137780				
US8538863	B1	2013-09-17	US8538863				
US8548927	B2	2013-10-01	US8548927				
US8635165	B2	2014-01-21	US8635165				
US8635131	B1	2014-01-21	US8635131				
US8655789	B2	2014-02-18	US8655789				

US2014114854	A1	2014-04-24	US20140114854				
US8872619	B2	2014-10-28	US8872619				
JP5643854	B2	2014-12-17	JP5643854				
US8960535	B2	2015-02-24	US8960535				
US2015073997	A1	2015-03-12	US20150073997				
USRE45416	E1	2015-03-17	USRE45416				
US2015106187	A1	2015-04-16	US20150106187				
US9024719	B1	2015-05-05	US9024719				
US9031880	B2	2015-05-12	US9031880				
US2015161641	A1	2015-06-11	US20150161641				
USRE45615	E1	2015-07-14	USRE45615				
US2015220910	A1	2015-08-06	US20150220910				
US9129453	B2	2015-09-08	US9129453				
US9196110	B2	2015-11-24	US9196110				
US2015379509	A1	2015-12-31	US20150379509				
US2016019541	A1	2016-01-21	US20160019541				
US9336634	B2	2016-05-10	US9336634				
US2016253658	A1	2016-09-01	US20160253658				
US9454752	B2	2016-09-27	US9454752				
US2016379221	A1	2016-12-29	US20160379221				
US2017061435	A1	2017-03-02	US20170061435				
US2017228738	A1	2017-08-10	US20170228738				
US9886692	B2	2018-02-06	US9886692				
US2018039973	A1	2018-02-08	US20180039973				
US2018144344	A1	2018-05-24	US20180144344				

Abstract

(EP1958121)

The present invention includes systems and methods for facilitating transactions using non-traditional devices. A method of the present invention includes the steps of forming a transaction request at a non-traditional device, and communicating the transaction request to a reader. In one embodiment, the non-traditional device may be configured with a transponder or other RF operable device. In another embodiment, the non-traditional device may be configured with an RFID protocol, such as a protocol in ISO 8583 format. In yet another embodiment, the non-traditional device may be configured to facilitate transactions using a random number, an authentication tag, a counter, or an encrypted payload.

Inventors

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Latest standardized assignees - inventors removed

LIBERTY PEAK VENTURES

Publication dates

2003-01-23

2003-01-23

2003-04-10

2003-07-31

2003-09-04

2004-01-15

2004-01-15

2004-01-15

2004-01-15

2004-01-15

2004-01-23

2004-01-23

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2004-01-23

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2004-03-11

2004-03-22

2004-04-03

2004-04-28

2004-05-04

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2006-10-26

2006-12-06

2006-12-07

2006-12-26

2007-03-01

2007-03-08

2007-03-15

2007-03-27

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2007-08-30

2007-11-15

2007-12-04
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2008-01-10
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2009-07-02
2009-08-25
2009-11-18
2009-12-24

2009-12-29
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2010-02-04
2010-02-04
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2011-08-09
2011-08-16
2011-08-30
2011-09-13
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2014-02-18
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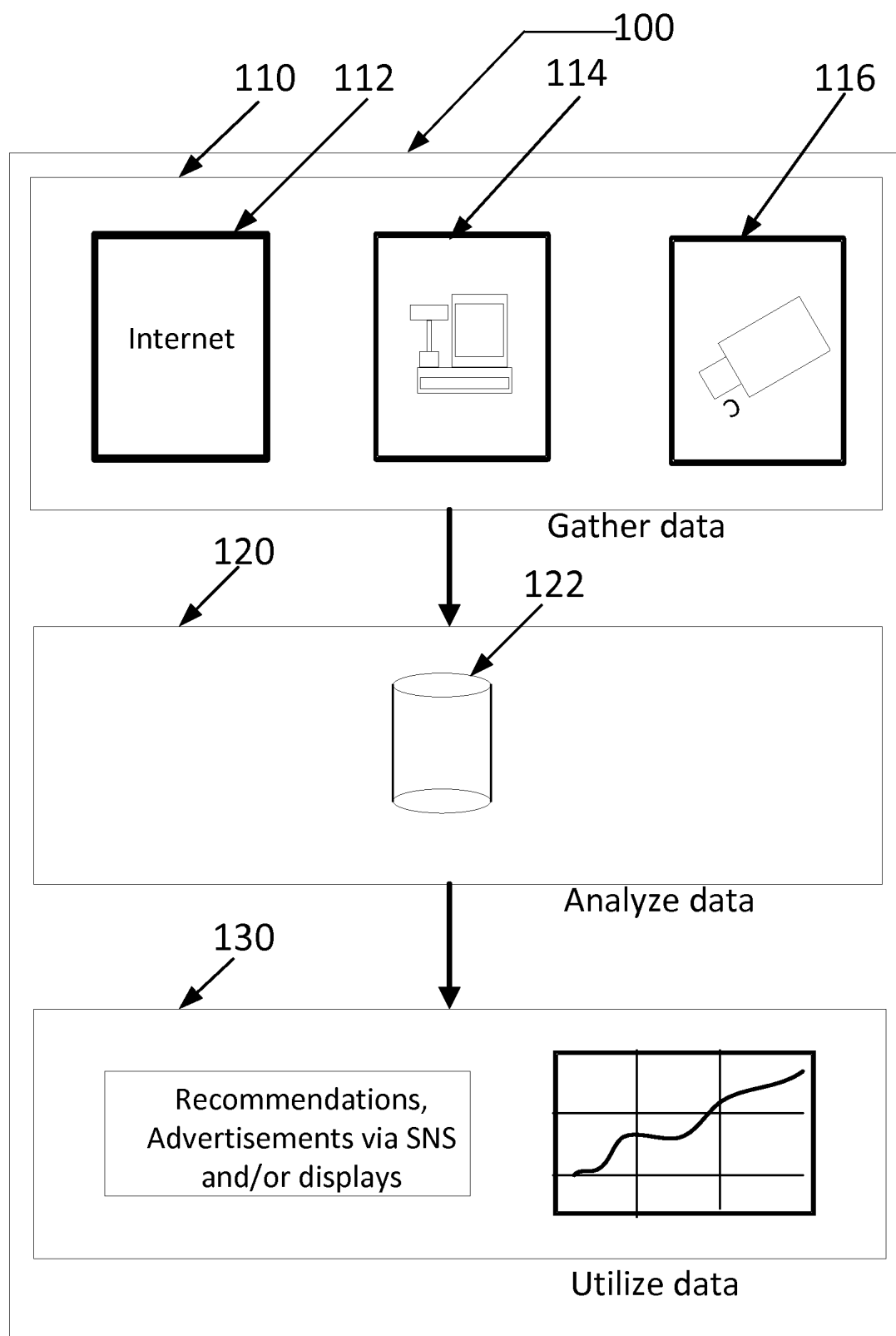
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Title

(US20150006243)

Digital information gathering and analyzing method and apparatus

Images



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US2015006243	A1	2015-01-01	US20150006243
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Abstract

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A method for providing a preferred selection from menu using a customer profile, historical transaction data and environmental information is described. The method includes capturing a **facial** image of a customer using a camera, extracting features from the **facial** image using a face **recognition** algorithm running on a CPU, obtaining current

environmental information from a website via computer network using a control algorism running on the CPU, storing transaction data associated with the customer in the database using a POS (Point of Sales) system, calculating a probability distribution of the preferred selection based on conditions including the customer profile, the environment information and transaction data stored in the database using the control algorism running on the CPU, and presenting the preferred selection to the customer in descending order from a largest value of probability to a lowest probability of the calculated probability distribution.

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