

1) Family number: 33222353 (US2002194137A)

Title: OPTICAL PAYMENT TRANSCIEVER AND SYSTEM USING THE SAME

Classifications:

Figure 1 is a schematic diagram of a transaction system. It shows a flow of information and transactions between several components. At the top left, a 'CUSTOMER' (31) is shown. A dashed line connects the customer to a 'CARD ISSUANCE' process. This process is linked to a 'MOBILE COMMUNICATIONS NETWORK' (38). The network is connected to a 'CARD DEALING STORE' (32) and a 'CARD COMPANY' (3). The 'CARD DEALING STORE' is linked to a 'CARD DEALING' process, which is connected to a 'VAN COMPANY' (35). A 'RELAYER' (34) is connected to the 'CARD DEALING STORE' and the 'VAN COMPANY'. Another 'RELAYER' (37) is connected to the 'CARD COMPANY' and the 'MOBILE COMMUNICATIONS NETWORK'.

US: 455/411 455/411S 705/1 705/1.1 705/1.100S 705/13 705/13P 705/14 705/14.15 705/14.150P 705/14.23 705/14.230S 705/26 705/27 705/35 705/35S 705/39 705/40 705/40P 705/40S 705/44 705/44S 705/64 705/64P 705/65 705/66

Publication number	Publication date	Application number	Application date
AU200144754 A5	20010924	AU20010044754	20010316
AU779316 B2	20050113	AU20010044754	20010316
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CN101201949 A	20080618	CN200810001953	20010316
CN1245053 C	20060308	CN20018009631	20010316
CN1440626 A	20030903	CN20018009631	20010316
CN1770207 A	20060510	CN200510068952	20010316
EP1275262 A2	20030115	EP20010917877	20010316
EP1275262 A4	20060419	EP20010917877	20010316
HK1058738 A1	20060908	HK20040101521	20040302
HK1058738 A3	20040528	HK20040101521	20040302
HK1117626 A3	20090116	HK20080112259	20081107
JP2003527703 T2	20030916	JP20010568158T	20010316
JP2005251212 A2	20050915	JP20050081951	20050322
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JP4421164 B2	20100224	JP20010568158T	20010316
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KR20020090946 A	20021205	KR20020059529	20020930
KR200202256 Y1	20001115	KR20000016328U	20000609
KR200209515 Y1	20010115	KR20000021614U	20000728
KR20030003134 A	20030109	KR20020059523	20020930
US2002194137 AA	20021219	US20020148326	20020529
US2006173790 AA	20060803	US20050291291	20051201
US2007061256 AA	20070315	US20060497645	20060802
US2008103981 AA	20080501	US20070877346	20071023
US2009248526 AA	20091001	US20090412365	20090327
US7552094 BB	20090623	US20020148326	20020529
WO0169346 A2	20010920	WO2001KR00428	20010316
WO0169346 A3	20011206	WO2001KR00428	20010316

Priority:

JP20010568158	20010316	JP20010568158T	20010316	JP20050081951	20010316
KR15400002001	20010111	KR20000013426	20000316	KR20000021614	20000728
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KR20010013736	20010316				

Probable Assignee: HAREXINFOTECH INC

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Inventor(s): WOO HEO GU ; PARK KYUNG YANG KIM CHUL KI HWANG QUE MIN ; KIM WON ; PARK KYUNG ; CHANG KWANG ; CHO EUN ; PARK KYUNG YANG KIM CHUL KI HWANG QUE MIN JUNG ; PARK KYUNG YANG KIM CHUL KI HWANG QUE MIN JUNG BON ; PARK KYUNG YANG KIM CHUL KI HWANG QUE MIN JUNG BONG SUNG SUNG KWANG HYUN KIM DO HA JUNG HOON JOON KANG BOG HEUI CHO EUN SANG KIM WON DONG KIM DAE YEON CHANG KWANG SU WOO HEE GU ; SUNG KWANG ; WOO HEE ; WOO HEO ; HWANG OUE ; HWANG OUE MIN ; HWANG QUE ; JUNG BONG ; JUNG HOON ; KANG BOG ; KIM CHUL ; KIM DAE ; KIM DO

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; WATANABE TOSHIAKI; SEKIYA MITSUO; HIRAKI YUSUKE; INABA YOSHIYUKI; F CHAU AND ASSOCIATES LLC; MCNEELY BODENDORF LLP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

2) Family number: 41909090 (US2008135612A)

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Title: LEARNING **FARE** COLLECTION SYSTEM FOR MASS TRANSIT

Abstract: Source: US2008135612A An implementation of a system and method for regulating entry in a transit system using information from a bankcard, such as a credit card or debit card is provided.

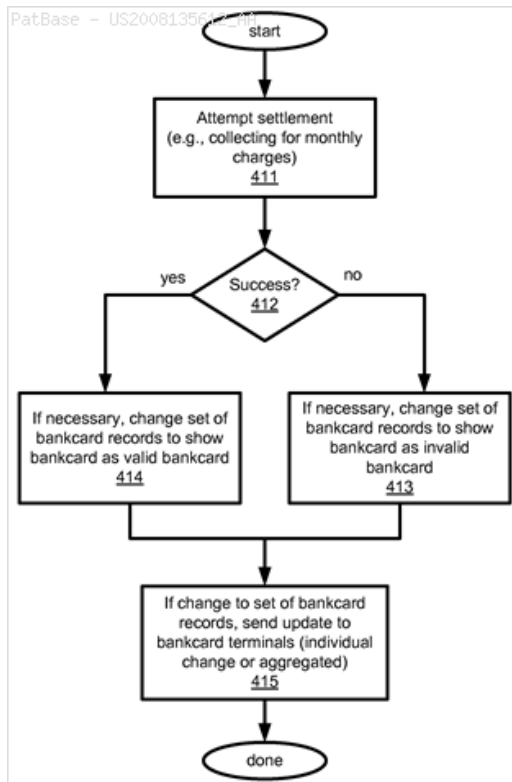
Classifications:

International (IPC 8-9): G06F17/00 G06K5/00 G06K7/01 G06K7/08
G06Q20/04 G06Q20/06 G06Q20/14 G06Q20/18 G06Q20/22
G06Q20/34 G06Q20/40 G06Q40/02 G06Q50/00 G06Q50/30
G07B15/00 G07B15/02 G07C9/00 G07F19/00 (Advanced/Invention);
G06Q20/00 (Advanced/Non-invention);
G06K5/00 (Core/Invention)

CPC: G06Q20/20 G06Q30/0224 G06Q20/204 G06Q20/34
G06Q20/409 G07C9/00103 G07B15/00 G06Q20/04 G06Q20/0655
G06Q20/0658 G06Q20/14 G06Q20/18 G06Q20/29 G06Q20/4037
G06Q40/02 G07F19/20 G06Q20/401 G06K7/087 G06Q2240/00

European: G06Q20/04 G06Q20/0655 G06Q20/0658 G06Q20/14
G06Q20/18 G06Q20/20 G06Q20/204 G06Q20/29 G06Q20/4037
G06Q30/0224 G06Q40/02 G07B15/00 G07F19/00F G07F19/20

US: 1/1 235/375 235/379 235/380 235/380S 235/382 235/382.5
235/382P 235/384 235/451 235/482 235/482S 235/487 235/492
705/13 705/13P 705/14 705/14.25 705/17 705/17S 705/44

**Family:**

Publication number	Publication date	Application number	Application date
US2008135612 AA	20080612	US20070838499	20070814
US2008140516 AA	20080612	US20070668456	20070129
US2009283591 AA	20091119	US20090511037	20090728
US2012255994 AA	20121011	US20120469065	20120510
US2013030883 AA	20130131	US20120646544	20121005
US2013325566 AA	20131205	US20130961625	20130807
US2014180776 AA	20140626	US20140195537	20140303
US2014310179 AA	20141016	US20140316552	20140626
US2017091754 AA	20170330	US20160379139	20161214
US7566003 BB	20090728	US20070838499	20070814
US7568617 BB	20090804	US20070668456	20070129
US8281990 BB	20121009	US20090511037	20090728
US8505816 BB	20130813	US20120646544	20121005
US8662390 BB	20140304	US20130961625	20130807
US8763902 BB	20140701	US20120469065	20120510
US9218600 BB	20151222	US20140316552	20140626
US9558487 BB	20170131	US20140195537	20140303

Priority:

US20060869112P	20061207	US20070668456	20070129	US20110484219P	20110510
US20120469065	20120510	US20090511037	20090728	US20070838499	20070814
US20120646544	20121005	US20130961625	20130807	US20140195537	20140303
US20140316552	20140626	US20160379139	20161214		

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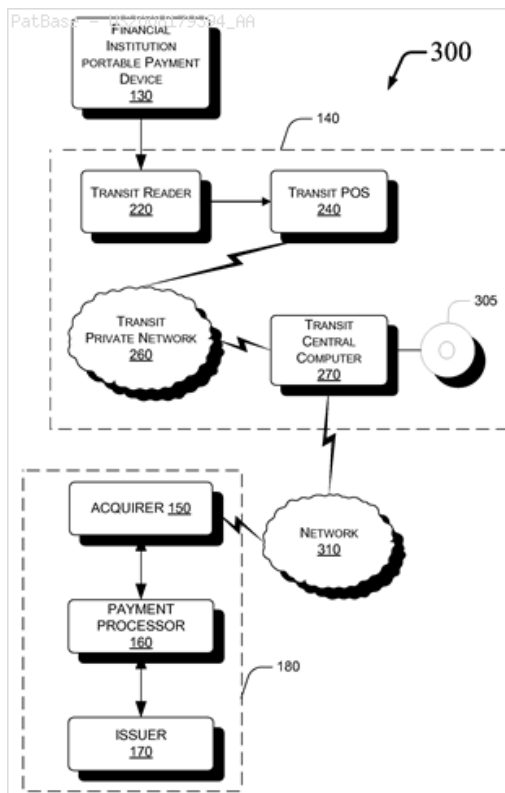
Title: OPEN SYSTEM ACCOUNT REMOTE VALIDATION FOR ACCESS

Abstract: Source: US2008179394A At each of a plurality of point of sale terminals (POS) of a transit system, for each of a plurality of riders, where each rider seeks access into a facility of the transit facility by using a payment device issued by an issuer in a payment system, data is read from the payment device. The data can include an identifier for an account issued by an issuer. For each such access, a communication including the account is addressed to a **network** address of a system remote from the payment processing system and remote from each of POS terminals. A response to the communication is received that includes information as to the validation of the access based upon the account being on a list keep by remote system. When the received information contains the validation of the access, the rider is permitted access to the facility of the transit system and the payment device is unchanged for the **fare** of the access to the facility of the transit system.

Classifications:

International (IPC 8-9): E03C1/302 G06F17/60 G06G1/12
 G06K19/00 G06K5/00 G06Q20/00 G06Q20/02 G06Q20/04
 G06Q20/08 G06Q20/14 G06Q20/20 G06Q20/32 G06Q20/34
 G06Q20/36 G06Q20/38 G06Q20/40 G06Q40/00 G07B15/00
 G07B15/02 G07B17/00 G07F19/00 H04K1/00 H04L9/28 H04L9/30

H04L9/32 (Advanced/Invention);
G07B15/00 (Advanced/Non-invention);
G06Q20/00 (Core/Invention)
CPC: G06Q20/027 G06Q20/04 G06Q20/085 G06Q20/0855
G06Q20/20 G06Q20/204 G06Q20/32 G06Q20/327 G06Q20/341
G06Q20/382 G06Q20/3821 G06Q20/401 G07B15/00 G06Q20/4016
G06Q20/40 E03C1/302 E03F9/005 F16B2/14 Y10T24/44009
Y10T29/49428
European: G06Q20/027 G06Q20/04 G06Q20/085 G06Q20/0855
G06Q20/20 G06Q20/204 G06Q20/32 G06Q20/327 G06Q20/341
G06Q20/382 G06Q20/3821 G06Q20/40 G06Q20/401 S07B15/00
US: 1/1 235/375 235/379 235/380 235/380P 235/380S 235/382
235/383 235/492 29/890.14 705/13 705/13P 705/16 705/17 705/17P
705/17S 705/21 705/44 705/44P 705/64 705/75 705/75P 705/76
705/77 705/78 705/79 713/17 713/176 713/177 713/178 713/179
726/1



Family:

Publication number	Publication date	Application number	Application date
AU2007345580 AA	20080807	AU20070345580	20071029
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CA2676637 AA	20080807	CA20072676637	20071029
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EP2108178 A1	20091014	EP20070844679	20071029
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KR101570038 B1	20151118	KR20097017982	20071029
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US2013275245 AA	20131017	US20130776421	20130225
US2013339243 AA	20131219	US20130872637	20130429
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WO08094326 A1	20080807	WO2007US82887	20071029
WO08094327 A1	20080807	WO2007US82898	20071029
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WO08094328 A3	20081106	WO2007US82903	20071029
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Priority:

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Probable Assignee: VISA USA INC

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Agent(s): PIZZEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; FINLAYSON AND SINGLEHURST; LAWRENCE JOHN; QUARLES AND BRADY LLP; BRADLEY K; KILPATRICK TOWNSEND AND STOCKTON LLP; DESANDRO BRADLEY K

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW