Title (en)

METHOD, TICKET HANDLING APPARATUS, COMPUTER PROGRAM PRODUCT AND PRODUCT PLATFORM FOR A SECURITY MECHANISM OF AN ELECTRONIC TICKET

Title (de)

VERFAHREN, TICKET-ABWICKLUNGSVORRICHTUNG, COMPUTERPROGRAMMPRODUKT UND PRODUKTPLATTFORM FÜR EINEN SICHERHEITSMECHANISMUS EINES ELEKTRONISCHEN TICKETS

Title (fr)

PROCÉDÉ, DISPOSITIF DE MANIPULATION DE TICKET, PRODUIT DE PROGRAMME D'ORDINATEUR ET PLATE-FORME DE PRODUIT POUR UN MÉCANISME DE SÉCURITÉ D'UN TICKET ÉLECTRONIQUE

Publication

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Application

EP 08709314 A 20080207

Priority

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• FI 20075092 A 20070209

Abstract (en)

[origin: WO2008096041A1] In the invention, the file structures of an electronic ticket are protected by sealing. The file structure of the ticket includes the basic data of the ticket and the information of the ticket application. This file structure can be read, written and processed by ticket handling apparatus, and at least part of the information of the ticket application is protected by seals. In connection with the selling, the first seal is calculated by a ticket handling apparatus, using the basic data of the ticket and the information of the ticket application, and this first seal is written on the ticket. Some encryption method is used for calculating the seal. This seal protects the information by which it has been calculated. The second seal is calculated in connection with the stamping of the ticket by the ticket handling apparatus, using the basic data of the ticket, the updated information of the ticket application and the broken first seal. When the second seal and the updated information of the ticket application have been written on the ticket, the broken first seal is written in place of the intact first seal. When the ticket is being checked in the ticket handling device, it calculates a reference seal from the values read from the ticket, and compares it with the read seal. If the reference seal and the read seal correspond to each other, the ticket is accepted. If the ticket has been checked and accepted, the information on the ticket that is not protected by a seal can be updated. The ticket can be saved on a remote-readable travel card, a contact card, a one-time card with a memory or a mobile communication device.

IPC 8 full level

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CPC (source: EP FI)

G06K 1/12 (2013.01 - FI); **G06Q 30/06** (2013.01 - EP); **G07B 11/00** (2013.01 - FI); **G07F 7/08** (2013.01 - EP FI); **G07F 7/12** (2013.01 - EP); G07B 11/00 (2013.01 - EP)

Citation (search report)

• [X] EP 1439495 A1 20040721 - SIEMENS AG [DE]
• [X] EP 0950968 A1 19991020 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [X] EP 1069539 A2 20010117 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [X] EP 1267289 A1 20021218 - PIA CORP [JP]
• [X] WO 0062260 A1 20001019 - SWISSCOM AG [CH], et al
• [X] EP 1079334 A1 20010228 - TOSHIBA KK [JP]
• [X] US 6223166 B1 20010424 - KAY JEFFREY B [US]
• [A] US 6473790 B1 20021029 - TAGI MINORU [JP]
• See references of WO 2008096041A1

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DOCDB simple family (publication)

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DOCDB simple family (application)

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