

(12) International Application Status Report

Received at International Bureau: 11 April 2018 (11.04.2018)

Information valid as of: 27 November 2018 (27.11.2018)

Report generated on: 27 March 2019 (27.03.2019)

(10) Publication number:

WO2018/225341

(43) Publication date:

13 December 2018 (13.12.2018)

(26) Publication language:

Japanese (JA)

(21) Application Number:

PCT/JP2018/012264

(22) Filing Date:

27 March 2018 (27.03.2018)

(25) Filing language:

Japanese (JA)

(31) Priority number(s):

2017-114776 (JP)

(31) Priority date(s):

09 June 2017 (09.06.2017)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

H04B 1/3822 (2015.01); **B60R 25/24** (2013.01); **E05B 49/00** (2006.01); **H04B 1/59** (2006.01); **H04Q 9/00** (2006.01)

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(54) Title (EN): ONBOARD AUTHENTICATION DEVICE AND PORTABLE DEVICE AUTHENTICATION METHOD

(54) Title (FR): DISPOSITIF D'AUTHENTIFICATION EMBARQUÉ ET PROCÉDÉ D'AUTHENTIFICATION DE DISPOSITIF PORTATIF

(54) Title (JA): 車載認証装置、携帯機認証方法

(57) Abstract:

(EN): An onboard authentication device for authenticating a portable appliance by wireless communication with a portable appliance (10) present around a vehicle (1). The onboard authentication device is provided with: a wireless communication unit (101) for performing wireless communication with the portable appliance; a call signal transmission unit (102) for transmitting a call signal that requests the reply of a response signal to a portable appliance present around the vehicle via the wireless communication unit; an authentication request signal transmission unit (103) which, when the response signal is received via the wireless communication unit, transmits an authentication request signal that requests the reply of an authentication signal via the wireless communication unit; and an authentication execution unit (104) which, when the authentication signal is received via the wireless communication unit, authenticates the portable appliance that transmitted the authentication signal on the basis of the authentication signal; the wireless communication unit transmitting the authentication request signal with greater signal strength than for the call signal.

(FR): L'invention concerne un dispositif d'authentification embarqué permettant d'authentifier un appareil portatif par communication sans fil avec un appareil portatif (10) présent autour d'un véhicule (1). Le dispositif d'authentification embarqué comprend : une unité de communication sans fil (101) permettant d'effectuer une communication sans fil avec l'appareil portatif; une unité de transmission de signal d'appel (102) permettant de transmettre un signal d'appel qui demande la réponse d'un signal de réponse à un appareil portatif présent autour du véhicule par l'intermédiaire de l'unité de communication sans fil; une unité de transmission de signal de demande d'authentification (103) qui, lorsque le signal de réponse est reçu par l'intermédiaire de l'unité de communication sans fil, transmet un signal de demande d'authentification qui demande la réponse d'un signal d'authentification par l'intermédiaire de l'unité de communication sans fil; et une unité d'exécution d'authentification (104) qui, lorsque le signal d'authentification est reçu par l'intermédiaire de l'unité de communication sans fil, authentifie l'appareil portatif qui a transmis le signal d'authentification en fonction du signal d'authentification; l'unité de communication sans fil transmet le signal de demande d'authentification avec une intensité de signal supérieure à celle du signal d'appel.

(JA): 車両(1)の周辺に存在する携帯機(10)との間で無線通信することによって、携帯機を認証する車載認証装置であって、携帯機との間で無線通信する無線通信部(101)と、車両の周辺に存在する携帯機に対して応答信号の返信を要求する呼出信号を、無線通信部を介して送信する呼出信号送信部(102)と、無線通信部を介して応答信号が受信されると、認証信号の返信を要求する認証要求信号を、無線通信部を介して送信する認証要求信号送信部(103)と、無線通信部を介して認証信号が受信されると、認証信号を送信した携帯機を、認証信号に基づいて認証する認証実行部(104)とを備え、無線通信部は、認証要求信号を、呼出信号よりも大きな信号強度で送信する。

International search report:

Received at International Bureau: 18 June 2018 (18.06.2018) [JP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

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Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM