

Title (en)  
DEVICE FOR CHECKING ACCESS PERMISSIONS

Title (de)  
EINRICHTUNG ZUR KONTROLLE VON ZUGANGSBERECHTIGUNGEN

Title (fr)  
DISPOSITIF DE CONTRÔLE D'AUTORISATIONS D'ACCÈS

Publication  
**EP 4256537 A1 20231011 (DE)**

Application  
**EP 21831210 A 20211119**

Priority  
• AT 510132020 A 20201120  
• AT 2021060437 W 20211119

Abstract (en)  
[origin: WO2022104404A1] A device for checking access permissions comprises an access area with guidance devices for forming an access lane for separating people or objects, in which blocking and/or signal means define an access threshold. A gate controller having a Bluetooth radio interface allows an access permission to be read from mobile data carriers, wherein positive validation of the access permission results in the access controller releasing the blocking and/or signal means and thus allowing separate passage through the access threshold. An access lane has an associated multiphase antenna group, the transmission/reception antennas of which are actuated by a Bluetooth transceiver module via an antenna feed network in such a way that at least two antenna lobes form that are at different distances from the access threshold as seen in the direction of access. When idling, the gate controller (9) continuously transmits short signals (advertising events) via the antenna lobe (6) that is at a greater distance from the access threshold (3) as seen in the direction of access and activates the Bluetooth radio interface of an approaching mobile data carrier (1). Every data carrier (1) with access permission has an associated unique permission identifier (UID or permission ID) that can be read via a ticket app that can be activated by means of the Bluetooth interface. The gate controller (9) reads the permission identifier via the antenna lobe (5) that is at a shorter distance from the access threshold (3) and measures the received field strength (RSSI) of the signal transmitted by the data carrier (1) at this antenna lobe (5). Positive assessment of the received field strength (RSSI) and positive validation of the permission (UID) result in the access controller (9) generating the release signal for the blocking and/or signal means (12, 13).

IPC 8 full level  
**G07C 9/20** (2020.01); **G07C 9/15** (2020.01)

CPC (source: EP US)  
**G07C 9/15** (2020.01 - EP); **G07C 9/20** (2020.01 - EP); **G07C 9/27** (2020.01 - US); **H04W 4/80** (2018.01 - US); **G07C 2209/63** (2013.01 - EP)

Citation (search report)  
See references of WO 2022104404A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022104404 A1 20220527**; CN 116648735 A 20230825; EP 4256537 A1 20231011; JP 2023549959 A 20231129;  
US 2023368597 A1 20231116

DOCDB simple family (application)  
**AT 2021060437 W 20211119**; CN 202180085601 A 20211119; EP 21831210 A 20211119; JP 2023530771 A 20211119;  
US 202318199674 A 20230519