

Title (en)  
CONTROL APPARATUS AND METHOD

Title (de)  
STEUERVORRICHTUNG UND -VERFAHREN

Title (fr)  
APPAREIL ET PROCÉDÉ DE COMMANDE

Publication  
**EP 4021767 A1 20220706 (EN)**

Application  
**EP 20859091 A 20200826**

Priority  
• CN 201910789846 A 20190826  
• CN 2020111329 W 20200826

Abstract (en)  
[origin: WO2021037052A1] A control apparatus and a control method are provided. The control apparatus (001) includes a first sensing device (200), an optical device (300), and a second sensing device (400), each communicatively connected with a controller (100). The first sensing device (200) detects whether a user (U) is in a proximity of a target object (T), and if so, sends object detection data to the controller (100), which further determines whether the user (U) is within a preset distance to the target object (T), and if so, controls the optical device (300) to project a preset image. The second sensing device (400) then detects a response of the user to the preset image, and sends user response data to the controller (100). The controller (100) further determines whether the response from the user meets a predetermined criterion, and if so, controls the target object (T) for executing a task. The control apparatus can be utilized for realizing a hands-free opening of a vehicle gate.

IPC 8 full level  
**B60R 25/20** (2013.01)

CPC (source: CN EP)  
**B60R 25/2054** (2013.01 - CN EP); **G07C 9/00174** (2013.01 - EP); **B60R 25/25** (2013.01 - EP); **G07C 9/00309** (2013.01 - EP); **G07C 2209/63** (2013.01 - EP)

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

DOCDB simple family (publication)  
**WO 2021037052 A1 20210304**; CN 110525377 A 20191203; CN 114616140 A 20220610; EP 4021767 A1 20220706; EP 4021767 A4 20240124

DOCDB simple family (application)  
**CN 2020111329 W 20200826**; CN 201910789846 A 20190826; CN 202080060963 A 20200826; EP 20859091 A 20200826