Title (en)
REMOTE CONTROL BUTTON ACTUATION MODULE, SYSTEM, AND METHOD CROSS-REFERENCE TO RELATED APPLICATIONS

Title (de)
FERNSTEUERUNGSKNOPFAKTIVIERUNGSMODUL, SYSTEM UND VERFAHREN

Title (fr)
MODULE D'ACTIONNEMENT DE BOUTON DE COMMANDE À DISTANCE, SYSTÈME ET PROCÉDÉ DE RÉFÉRENCES CROISÉES POUR DES APPLICATIONS CONNEXES

Publication
EP 3279882 A1 20180207 (EN)

Application
EP 17183600 A 20170727

Priority
US 201615228166 A 20160804

Abstract (en)
An actuation system used to actuate one or more buttons on a remote control device, such as a key fob, based upon commands that are generated from a mobile device. The actuation system includes an isolation enclosure that prevents RF signals from entering into or leaving an open interior of the enclosure. The enclosure surrounds a controller, a button actuator and the remote control device. The controller receives the command signals from the mobile device and converts the command signals into position commands that are used to activate the button actuator to move the plunger into alignment with one of the buttons on the key fob. The button actuator moves the plunger into contact with one of the buttons which generates an RF signal from the key fob. The controller utilizes a transmitting antenna to communicate a vehicle command signal out of the isolation enclosure for receipt by the vehicle.

IPC 8 full level
G08C 17/02 (2006.01)

CPC (source: EP)
G08C 17/02 (2013.01)

Citation (applicant)
US 2009108989 A1 20090430 - SINCLAIR PETER [AU]

Citation (search report)
- [XI] US 2013181822 A1 20130718 - LEAVITT RICHARD WARREN [US]
- [XDI] WO 2006084330 A1 20060817 - OMNIKEY PTY LTD [AU], et al
- [XI] US 2002084694 A1 20020704 - QUESNEL GARY E [US], et al

Cited by
EP3693933A3; EP3611703A1; US10960849B2; US11340649B2; US11859407B1

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)
EP 3279882 A1 20180207; **EP 3279882 B1 20200923**; CA 2975024 A1 20180204

DOCDB simple family (application)
EP 17183600 A 20170727; CA 2975024 A 20170731