

Title (en)  
HINGE-BASED DOOR CONTROL SYSTEM

Title (de)  
TÜRSTEUERUNGSSYSTEM AUF SCHARNIERBASIS

Title (fr)  
SYSTÈME DE COMMANDE DE PORTIÈRE À CHARNIÈRE

Publication  
**EP 3684997 A4 20210623 (EN)**

Application  
**EP 18858029 A 20180921**

Priority  
• US 201762561209 P 20170921  
• CA 2018051196 W 20180921

Abstract (en)  
[origin: WO2019056125A1] A vehicle door control system is provided, and includes a body hinge member connected to the vehicle body, a door hinge member connected to the door, a brake and a control system. The brake includes a plate pack that includes a plurality of body brake plates connected to the body hinge member, and interleaved with a plurality of door brake plates connected to the door hinge member. The plate pack is positionable in a braking state in which the body brake plates and the door brake plates are frictionally engaged with one another to provide a first resistance to relative rotation therebetween so as to hold the vehicle door in a selected position, and a release state in which the body brake plates and the door brake plates provide a second resistance to relative rotation therebetween that is less than the first resistance.

IPC 8 full level  
**E05C 17/56** (2006.01); **B60J 5/04** (2006.01); **E05D 11/00** (2006.01); **E05D 11/08** (2006.01); **E05F 5/00** (2017.01); **H02K 7/06** (2006.01); **H02K 7/102** (2006.01); **H02K 7/116** (2006.01); **H02K 11/215** (2016.01); **H02K 11/33** (2016.01)

CPC (source: EP US)  
**E05C 17/003** (2013.01 - US); **E05D 11/087** (2013.01 - EP US); **E05F 5/00** (2013.01 - EP); **E05F 5/025** (2013.01 - US); **E05F 15/622** (2013.01 - US); **E05F 15/624** (2015.01 - US); **E05F 15/70** (2015.01 - US); **E05F 15/75** (2015.01 - US); **F16D 55/36** (2013.01 - US); **F16D 65/186** (2013.01 - US); **F16H 1/46** (2013.01 - US); **H02K 7/102** (2013.01 - EP); **H02K 7/116** (2013.01 - EP); **H02K 11/215** (2016.01 - EP); **H02K 11/33** (2016.01 - EP); **E05D 2011/088** (2013.01 - EP US); **E05Y 2201/21** (2013.01 - EP US); **E05Y 2201/246** (2013.01 - EP US); **E05Y 2201/434** (2013.01 - US); **E05Y 2400/3016** (2024.05 - US); **E05Y 2400/32** (2013.01 - EP US); **E05Y 2400/326** (2013.01 - EP); **E05Y 2400/36** (2013.01 - EP US); **E05Y 2900/531** (2013.01 - EP US); **F16D 2121/24** (2013.01 - US); **F16D 2125/40** (2013.01 - US); **F16H 25/20** (2013.01 - US)

Citation (search report)  
• [XAI] DE 102012024375 A1 20140618 - KIEKERT AG [DE]  
• [A] DE 102009036873 A1 20110113 - KIEKERT AG [DE]  
• See also references of WO 2019056125A1

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

DOCDB simple family (publication)  
**WO 2019056125 A1 20190328**; CA 3077740 A1 20190328; CN 111226019 A 20200602; CN 111226019 B 20221025; EP 3684997 A1 20200729; EP 3684997 A4 20210623

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**CA 2018051196 W 20180921**; CA 3077740 A 20180921; CN 201880061203 A 20180921; EP 18858029 A 20180921