

Title (en)

POWER HINGE ASSEMBLY FOR FRONT CLOSURE

Title (de)

ANTRIEBSSCHARNIERANORDNUNG FÜR FRONTVERSCHLUSS

Title (fr)

ENSEMBLE CHARNIÈRE ÉLECTRIQUE POUR FERMETURE AVANT

Publication

EP 4200504 A1 20230628 (EN)

Application

EP 21859122 A 20210819

Priority

- US 202063068018 P 20200820
- US 2021046655 W 20210819

Abstract (en)

[origin: WO2022040408A1] A hinge assembly supports a closure and is configured to automatically move the closure between open and closed positions. The hinge assembly includes a linkage subassembly and an actuator arrangement. The actuator arrangement is configured to move the linkage subassembly to open and close the closure. The linkage subassembly includes an upper linkage connected to a mounting bracket of the closure. The mounting bracket is connected to the upper linkage at two connection points. The first connection is non-removable attachment. The second connection may be a release mechanism that selectively attaches the mounting bracket to the upper linkage. The release mechanism is normally connected and is configured to release, in response to a frontal pedestrian impact being detected or anticipated, to pivot the closure about the non-removable attachment and place the closure in a tilted position.

IPC 8 full level

E05D 5/06 (2006.01); **E05D 11/10** (2006.01); **E05F 5/02** (2006.01)

CPC (source: EP)

B60R 21/38 (2013.01); **E05D 3/145** (2013.01); **E05D 5/0207** (2013.01); **E05F 15/622** (2013.01); **E05Y 2900/536** (2013.01)

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 2022040408 A1 20220224; EP 4200504 A1 20230628

DOCDB simple family (application)

US 2021046655 W 20210819; EP 21859122 A 20210819