

Title (en)

ACTIVE/SEMI-ACTIVE STEER-BY-WIRE SYSTEM AND METHOD

Title (de)

AKTIVES/HALBAKTIVES STEER-BY-WIRE-LENKSYSTEM UND VERFAHREN

Title (fr)

SYSTÈME DE DIRECTION À COMMANDE ÉLECTRIQUE ACTIF/SEMI-ACTIF ET PROCÉDÉ ASSOCIÉ

Publication

EP 4263326 A1 20231025 (EN)

Application

EP 22706162 A 20220204

Priority

- US 202163146277 P 20210205
- US 2022015247 W 20220204

Abstract (en)

[origin: WO2022170050A1] A combined brake and motor providing tactile feedback control to a human-machine interface steering input device as part of a steer-by-wire system is provided. The brake is a tactile feedback device (TFD) brake and the motor is an electric motor coupled to the brake. The brake provides end stop control and resistive torque to the steer-by-wire system. The motor provides motion control to the steer-by-wire system, where motion control includes a return-to-center, a command following, an on-center control, an active force-feel, and/or a warning mode (e.g., similar to an aircraft stick shaker or a lane departure). The steer-by-wire system is an active system.

IPC 8 full level

B62D 5/00 (2006.01)

CPC (source: EP KR)

B62D 5/005 (2013.01 - EP); **B62D 5/006** (2013.01 - EP KR); **B62D 5/0403** (2013.01 - KR); **B62D 6/008** (2013.01 - KR); **H04L 12/46** (2013.01 - KR); **B60Y 2400/83** (2013.01 - KR); **H04L 2012/40215** (2013.01 - KR)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

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