

Title (en)

STEERING COLUMN FOR A STEERING SYSTEM OF A MOTOR VEHICLE COMPRISING A CONTROL UNIT FOR TWO ADJUSTMENT DRIVES

Title (de)

LENKSÄULE FÜR EIN LENKSYSTEM EINES KRAFTFAHRZEUGS MIT EINER STEUEREINHEIT FÜR ZWEI VERSTELLANTRIEBE

Title (fr)

COLONNE DE DIRECTION POUR SYSTÈME DE DIRECTION D'UN VÉHICULE AUTOMOBILE AVEC UNE UNITÉ DE COMMANDE POUR DEUX ENTRAÎNEMENTS DE DÉPLACEMENT

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Application

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Abstract (en)

[origin: WO2020099362A1] The invention relates to a steering column (1) for a steering system of a motor vehicle, comprising a first adjustment drive (2) for adjusting the steering column in a longitudinal adjustment direction (X) and a second adjustment drive (2') for adjusting the steering column in a vertical adjustment direction (Z), wherein: the first and second adjustment drive (2, 2') each have a drive motor (20, 20') for adjusting the steering column (1); the two drive motors (20, 20') have a common control unit (50) which comprises three half bridges (HB1, HB2, HB3) which are arranged in parallel and connected between two voltage potentials; the half bridges (HB1, HB2, HB3) each have two switching elements (S1, S2, S3, S4, S5, S6) connected in series, one of the switching elements being a high-side switch (S1, S2, S3) and the other switching element being a low-side switch (S4, S5, S6), a connection point being formed between a high-side switch (S1, S2, S3) and a low-side switch (S4, S5, S6) in each half bridge (HB1, HB2, HB3); and the connection point of a first half bridge (HB1) is electrically conductively connected to a first connection of a first drive motor (20) of the two drive motors (20, 20'), the connection point of a second half bridge (HB2) is electrically conductively connected to a second connection of the first drive motor (20), the connection point of a third half bridge (HB3) is electrically conductively connected to a second connection of a second drive motor (20') of the two drive motors (20, 20'), and the connection point of the second half bridge (HB2) is electrically conductively connected to a first connection of the second drive motor (20').

IPC 8 full level

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