

Title (en)

Vehicle with central wheel drive, in particular a wheelchair or stand-up wheelchair

Title (de)

Fahrzeug mit Mittenradantrieb, insbesondere Rollstuhl oder Aufrichtrollstuhl

Title (fr)

Véhicule comprenant un entraînement de roue médiane, en particulier fauteuil roulant ou fauteuil roulant verticaliseur

Publication

EP 2428193 A3 20120718 (DE)

Application

EP 11192335 A 20080320

Priority

- EP 08714776 A 20080320
- CH 13272007 A 20070824

Abstract (en)

[origin: WO2009026731A1] The vehicle, for example a stand-up wheelchair, comprises a frame (11) and, arranged on the latter, a seat device (19). On each side of the frame (11), the central wheel (13), which can be driven by a motor (27), and the front wheel (15) are operatively connected to each other by an endless chain (45). The frame (11) has a front part (21) and a rear part (23), which are connected to each other in an articulated manner by way of a joint (25). In the sitting position, the front wheels (15) are not in contact with the ground, which means that they do not obstruct the manoeuvring of the vehicle in a confined space. In the standing position, the front wheels (15) are in contact with the ground, but the central wheels (13) are not. The user, in the standing position, is thus able to turn about the axis of the vehicle, without the central wheels (13) having a blocking action.

IPC 8 full level

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CPC (source: CH EP US)

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Citation (search report)

- [A] GB 2325903 A 19981209 - HESTER ROBERT GEORGE [GB]
- [A] US 4119163 A 19781010 - BALL DOUGLAS
- [A] DE 19816879 A1 19991021 - WEDEKIND ERNST [DE]
- [A] WO 2005051279 A1 20050609 - UNIV VALENCIA POLITECNICA [ES], et al
- [A] US 2007152427 A1 20070705 - OLSEN CHRISTOPHER J [US]

Designated contracting state (EPC)

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