

Title (en)
WHEELCHAIR WITH CENTRAL WHEEL DRIVE

Title (de)
ROLLSTUHL MIT MITTENRADANTRIEB

Title (fr)
FAUTEUIL ROULANT A ENTRAINEMENT DE ROUE INTERMEDIAIRE

Publication
EP 1893153 A1 20080305 (DE)

Application
EP 06741656 A 20060616

Priority
• CH 2006000331 W 20060616
• CH 10762005 A 20050624

Abstract (en)
[origin: WO2006136046A1] A wheelchair has two central wheels (15) which can be separately driven by a motor. In order to allow the wheelchair to turn around in narrow spaces, the central wheels (15) can be driven in opposite directions of rotation. When the wheelchair is turned around, the front wheels (17) and rear wheels (19) do not constitute a hindrance because they are kept at a distance from the ground (25) by the swivelling wheel (21). All three wheels (15, 17, 19) are coupled together on each side by a chain (27). When the front wheels run against an obstacle, the wheelchair climbs over the obstacle with the driven front wheels (17). This causes the fork (22) of the swivelling wheel (21) to swivel about the rotational axis (31) in the direction of arrow (33), against the force of a spring, bringing the rear wheels in contact with the ground and also driving the wheelchair's rear wheels. This all-wheel drive allows the wheelchair to overcome relatively high obstacles both forwards and backwards, even when driving slowly and without losing its manoeuvrability.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 2006136046A1

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