

Title (en)
Wheelchair tilting mechanism

Title (de)
Rollstuhlkippmechanismus

Title (fr)
Mécanisme d'inclinaison de fauteuil roulant

Publication
EP 2471499 A1 20120704 (EN)

Application
EP 10197454 A 20101231

Priority
EP 10197454 A 20101231

Abstract (en)
A wheelchair tilting mechanism includes a seat support provided with pivot members and guide bars; a wheel support provided with pivot pins, to which the pivot members are rotatably connected; and a control unit including handlebars, actuating levers, cylinders fixedly mounted to the wheel support, and push bars separately movably received in the cylinders with an end mounted on the wheel support and the other end articulated to linking elements and fixed to the guide bars. The actuating levers are located below the handlebars to connect to the seat support via the linking elements, and fastening devices are provided at joints of the seat support and the linking elements. A control valve is provided on each of the linking elements. The tilting mechanism can be manipulated to steplessly adjust a wheelchair seat to different angular positions, allowing a patient sitting on the wheelchair to change posture.

IPC 8 full level
A61G 5/02 (2006.01)

CPC (source: EP)
A61G 5/1054 (2016.10); **A61G 5/1075** (2013.01); **A61G 5/1089** (2016.10); **A61G 5/125** (2016.10); **A61G 5/128** (2016.10)

Citation (search report)
• [IY] EP 0876783 A2 19981111 - BRODA ENTERPRISES INC [CA]
• [YA] US 2002030350 A1 20020314 - BROTHERSTON IAN [CA]
• [A] US 2004049841 A1 20040318 - BROTHERSTON IAN [CA], et al
• [A] WO 9723187 A1 19970703 - DEGONDA REHAB SA [CH], et al
• [A] US 4732423 A 19880322 - CONDON JAMES R [US]

Cited by
CN104309627A; CN103110486A

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

DOCDB simple family (publication)
EP 2471499 A1 20120704

DOCDB simple family (application)
EP 10197454 A 20101231