

Title (en)
Wheelchair suspension

Title (de)
Rollstuhlaufhängungssystem

Title (fr)
Suspension de fauteuil roulant

Publication
EP 1767178 A1 20070328 (EN)

Application
EP 05020625 A 20050922

Priority
EP 05020625 A 20050922

Abstract (en)
A side frame assembly (2) for a wheelchair suspension includes a mainframe (3), and a front caster frame (41) connected pivotally to both a front end of the mainframe (3) and a front caster (42). A return spring (5) is disposed between the front caster frame (41) and the mainframe (3) so as to bias the front caster (42) to a predetermined position. A drive wheel assembly (6) includes a drive wheel frame (61), a drive wheel (62) disposed pivotally on the drive wheel frame (61), and a driving unit (63) operable to rotate the drive wheel (62). A linkage (7) is connected pivotally to the mainframe (3), the front caster frame (41) and the drive wheel frame (61). A rear caster assembly (8) includes a rear caster frame (81) attached to a rear end of the mainframe (3), and a rear caster (82) disposed pivotally on the rear caster frame (81).

IPC 8 full level
A61G 5/04 (2006.01); **A61G 5/06** (2006.01)

CPC (source: EP)
A61G 5/043 (2013.01); **A61G 5/06** (2013.01); **A61G 5/1078** (2016.10)

Citation (search report)
• [XAY] US 6129165 A 20001010 - SCHAFFNER WALTER E [US], et al
• [XAY] US 2005077714 A1 20050414 - MULHERN JAMES P [US], et al
• [A] US 2004060748 A1 20040401 - MOLNAR JAMES H [US]

Cited by
CN109823443A; US8177257B2; US8210556B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1767178 A1 20070328

DOCDB simple family (application)
EP 05020625 A 20050922