

Title (en)
COLLAPSIBLE WHEEL CHAIR

Publication
EP 0163139 A3 19870107 (DE)

Application
EP 85105115 A 19850426

Priority
CH 249484 A 19840521

Abstract (en)
[origin: US4684149A] To reduce the weight of the collapsible wheelchair, and the depth of the wheelchair, when collapsed, only three spreader braces (25,49,51) are used to connect, respectively, the back and side frame elements, (45,47) of the collapsible wheelchair together, the remaining interconnection being formed by tension cables (53;57",57",59"), which tend to counteract the spreading effect of the collapsible spreader braces, and are located, with respect to the spreader braces, in triangular position, one (53) of the tensioning cable extending parallel to two spreader braces (49,51) located in triangular configuration with respect to the frame elements (45,47), and other tensioning cables extending diagonally, in pairs (57,59) between the frame elements (45,47), located at the rear portion of the chair to hold the rear portion towards each other when the weight (24) of the user tends to pull together the forward portions (45d,47d) of the frame elements (45,47). The spreader braces are preferably formed with over-center toggle, or knee joints and lockable in position by a safety connecting sleeve (61).

IPC 1-7
A61G 5/00

IPC 8 full level
A61G 5/02 (2006.01); **A61G 5/08** (2006.01); **A61G 5/14** (2006.01)

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A61G 5/08 (2013.01 - EP US); **A61G 5/0816** (2016.10 - EP US); **A61G 5/1054** (2016.10 - EP US); **A61G 5/14** (2013.01 - EP US)

Citation (search report)
• [E] US 4553770 A 19851119 - LYMAN ROGER T [US]
• [A] DE 389653 C 19240205 - JACOB RUECKERT
• [A] GB 640737 A 19500726 - WILLIAM JOHN MILLS
• [A] US 2633896 A 19530407 - MARTIN THOMPSON HERMAN
• [A] US 3848883 A 19741119 - BREACAIN S
• [A] DE 2625045 B1 19770811 - VALUTEC AG
• [AP] EP 0127511 A2 19841205 - LACOSTE SA [FR]

Cited by
US5028065A; EP2997945A1; US6352275B1; WO9937265A1; WO2016042444A1

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