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Patent Search

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Abstract:

STRETCHER CONVERTIBLE WHEELCHAIR A stretcher convertible wheelchair (100) comprising (i) a frame (106) to withstand the load of a user, (ii) one or more hand levers (103A-N) to convert the stretcher convertible wheelchair (100) to a stretcher position from a wheelchair position and vice versa and (iii) a slider (107) that extends and contracts to rotate backrest (101) and a leg rest (102) with a rotation of the one or more hand levers (103A-N). When in operation, the one or more hand levers (103A-N) is rotated in at least one of an anti-clockwise direction to extend the slider (107) to rotate the backrest (101) and the leg rest (102) of the stretcher convertible wheelchair (100) in the anti-clockwise direction or (ii) a clockwise direction to contract the slider (107) to rotate the backrest (101) and the leg rest (102) of the stretcher convertible wheelchair (100) in the clockwise direction. 1

Complete Specification

Claims: I/We Claim:

1. A stretcher convertible wheelchair (100) using a self-actuating mechanism, the 1 stretcher convertible wheelchair (100) comprising: 2 a frame (106) is a stationary member that withstands the load of a user; 3 one or more hand levers (103A-N) that is mounted on at least one of the left side or 4 right side of the stretcher convertible wheelchair (100) to convert the stretcher convertible 5 wheelchair (100) from a wheelchair position to a stretcher position and vice versa; 6 a slider (107) that is connected between the frame (106) and a leg rest coupler (206), 7 wherein the slider (107) extends and contracts to rotate a backrest (101) and a leg rest (102) 8 of the stretcher convertible wheelchair (100) with a direction of a rotation of the one or more 9 hand levers (103A-N), when in operation, the one or more hand levers (103A-N) is rotated in 10 at least one of (i) an anti-clockwise direction that extends the slider (107) to rotate the 11 backrest (101) and the leg rest (102) of the stretcher convertible wheelchair (100) in the anti-12 clockwise direction or (ii) a clockwise direction that contracts the slider (107) to rotate the 13 backrest (101) and the leg rest (102) of the stretcher convertible wheelchair (100) in the 14 clockwise direction. 15
2. The stretcher convertible wheelchair (100) as claimed in claim 1, wherein the 1 stretcher convertible wheelchair (100) comprises an actuator lever that controls the backrest 2 (101) and the leg rest (102) of the stretcher convertible wheelchair (100) simultaneously. 3
3. The stretcher convertible wheelchair (100) as claimed in claim 1, wherein the frame 1 (106) is integrated mechanically with the slider (107) at zero degrees of freedom and the 2 backrest (101) and the leg rest (102) are mechanically coupled with the frame (106) at 1 3 degree of freedom. 4
4. The stretcher convertible wheelchair (100) as claimed in claim 1, wherein the 1 stretcher convertible wheelchair (100) comprises a prone wheel (105) that provides lateral

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