



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 0 908 167 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
08.12.1999 Bulletin 1999/49

(51) Int Cl.⁶: **A61G 5/04**, A61G 5/10

(43) Date of publication A2:
14.04.1999 Bulletin 1999/15

(21) Application number: **98308025.0**

(22) Date of filing: **01.10.1998**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE**
Designated Extension States:
AL LT LV MK RO SI

- Grebinoski, James J.
Westlake, Ohio 44145 (US)
- Pogir, Hymie H.
Orange Village, Ohio 44022 (US)

(30) Priority: **06.10.1997 US 944249**

(71) Applicant: **INVACARE CORPORATION**
Elyria, Ohio 44036 (US)

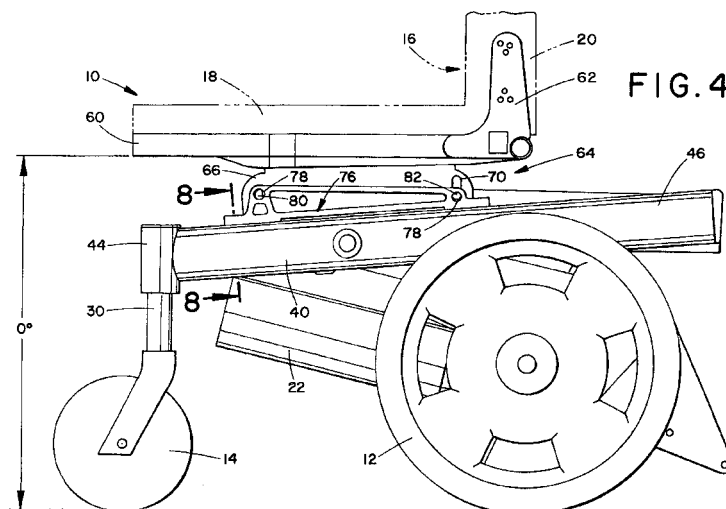
(74) Representative:
Purvis, William Michael Cameron et al
D. Young & Co.,
21 New Fetter Lane
London EC4A 1DA (GB)

(72) Inventors:
• **Pulver, Dale A.**
University Heights, Ohio 44118 (US)

(54) **Reversible seat for front wheel drive and rear wheel drive power wheelchair having stepless angular adjustment**

(57) A power wheelchair includes a seat support assembly (64) that allows both fore and aft, and angular, adjustment. The preferred configuration includes first (66) and second (76) seat support members, one secured to the seat (18) and the other mounted on the frame. A pin and elongated opening assembly (78) is provided at each end of the seat support assembly (64) to allow for angular adjustment of the seat. Moreover, a

channel is formed on the longitudinal frame members to receive a fastener associated with the seat support assembly. By selectively loosening and tightening the fasteners, the seat support assembly, and thus the seat, can be adjusted fore and aft. This allows the same component parts to be used with both front wheel and rear wheel drive arrangements, while providing infinite angular seat adjustment and desired fore and aft adjustment.



EP 0 908 167 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 98 30 8025

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	EP 0 324 069 A (ORTOPEDIA GMBH) 19 July 1989 (1989-07-19) * column 1, line 35 - column 3, line 26; figures 1,2 *	1,9,11, 15,16,19	A61G5/04 A61G5/10
A	WO 91 17877 A (MEDICAL COMPOSITE TECHNOLOGIE) 28 November 1991 (1991-11-28) * page 18, line 17 - page 20, line 7; figures 1-4 *	3,8,12, 14,21	
A	DE 93 10 610 U (RUNDMUND REINHOLD) 4 November 1993 (1993-11-04) * claims 1,4; figure 1 *	1,11,19	
A	WO 93 00060 A (TARTAN REHAB LIMITED) 7 January 1993 (1993-01-07) * claim 1; figures *	1,11,19	
A,D	US 5 575 348 A (GOERTZEN GEROLD G ET AL) 19 November 1996 (1996-11-19) * the whole document *	1	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			A61G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18 October 1999	Examiner Baert, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 30 8025

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

18-10-1999

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 0324069 A	19-07-1989	DE 3801874 A	20-07-1989
		CA 1294523 A	21-01-1989
		DK 10789 A	13-07-1989
		US 4951766 A	28-08-1990
WO 9117877 A	28-11-1991	US 5233743 A	10-08-1993
		AU 8054891 A	10-12-1991
		US 5320373 A	14-06-1994
DE 9310610 U	04-11-1993	NONE	
WO 9300060 A	07-01-1993	NONE	
US 5575348 A	19-11-1996	EP 0677285 A	18-10-1995
		US 5853059 A	29-12-1998

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82