



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 569 057 A3

12

EUROPEAN PATENT APPLICATION

21 Application number: **93112136.2**

51 Int. Cl.⁵: **A61G 7/057**

22 Date of filing: **07.12.89**

30 Priority: **20.12.88 US 288071**

43 Date of publication of application:
10.11.93 Bulletin 93/45

60 Publication number of the earlier application in
accordance with Art.76 EPC: **0 375 206**

84 Designated Contracting States:
AT BE CH DE FR GB IT LI LU NL SE

88 Date of deferred publication of the search report:
01.12.93 Bulletin 93/48

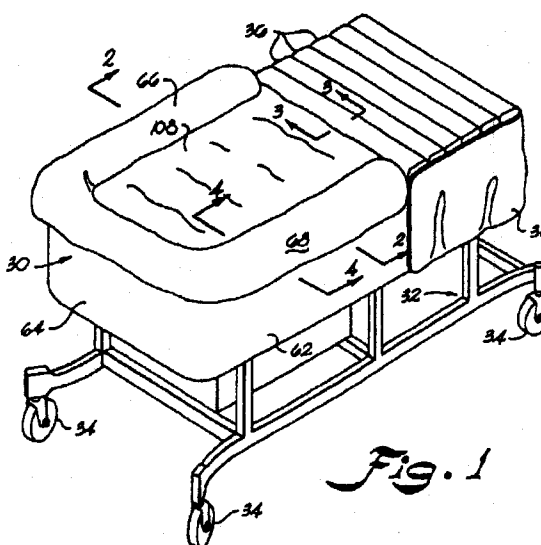
71 Applicant: **SSI MEDICAL SERVICES, INC.**
4349 Corporate Road
Charleston South Carolina 29405(US)

72 Inventor: **Soltaninasab, Sohrab**
78 Ashley Hall Plantation Road,
Apartment C 11
Charleston, South Carolina 29407(US)
Inventor: **Novack, Robert C.**
2624 Ridgewood Avenue
Charleston, South Carolina 29404(US)
Inventor: **Hargest, Thomas S.**
Ashley House,
Apartment J 10,
14 Lockwood Drive
Charleston, South Carolina 29401(US)

74 Representative: **Greenwood, John David et al**
Graham Watt & Co.
Riverhead
Sevenoaks Kent TN13 2BN (GB)

54 Patient support systems.

57 A patient support system has a fluidizable surface formed by air fluidizing a mass of fluidizable material (50), and a surface formed by a plurality of inflatable sacks (36) which may be disposed on an articulatable member. The two surfaces are disposed end to end so that the inflatable sacks (36) support the head, chest and upper torso of a patient, and the fluidized material (50) supports the buttocks, legs and feet of the patient. The fluidizable material (50) is contained by a member (66) which is at least partially collapsible so as to facilitate the patient's ingress and egress to and from the support system, the collapsible member for example comprising an air impermeable panel which can form an inflatable elastic wall (66) having one or more internal webs defining separately pressurizable compartments. A blower (40) inflates the sacks, the elastic wall (66), and the fluidizable material under the control of a microprocessor which controls actuation of various valves and the blower (40) according to signals inputted by operating personnel or supplied by various sensors which monitor the patient support system.



EP 0 569 057 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 93 11 2136

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.5)
A	US-A-4 425 676 (CRANE) * abstract; figures * ---	1	A61G7/057
A,D	US-A-3 428 973 (HARGEST) * the whole document * ---	1	
A,D	US-A-4 483 029 (PAUL) * the whole document * ---	1	
A,D	US-A-4 637 083 (GOODWIN) * the whole document * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			A61G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06 OCTOBER 1993	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			