

12

**EUROPEAN PATENT APPLICATION**

21 Application number: **87306414.1**

51 Int. Cl.4: **A61H 1/02**

22 Date of filing: **20.07.87**

30 Priority: **19.07.86 GB 8617681**  
**10.02.87 GB 8702977**

43 Date of publication of application:  
**27.01.88 Bulletin 88/04**

54 Designated Contracting States:  
**AT BE CH DE ES FR GB IT LI NL SE**

88 Date of deferred publication of the search report:  
**05.04.89 Bulletin 89/14**

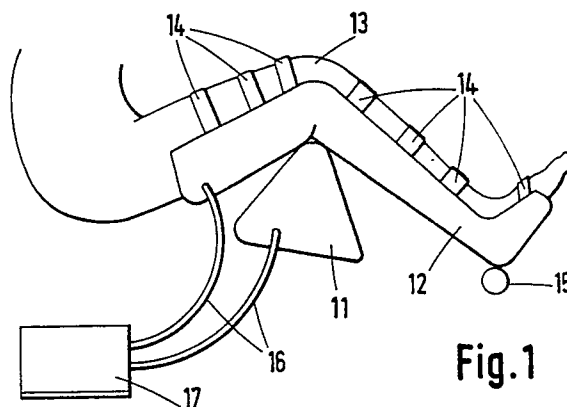
71 Applicant: **Smith and Nephew Associated Companies p.l.c.**  
**2, Temple Place Victoria Embankment**  
**London WC2R 3BP(GB)**

72 Inventor: **Bulstrode, Christopher John Kent**  
**Wits End, Old Road**  
**Wheatley Oxfordshire(GB)**  
Inventor: **Sonley, Richard Iain**  
**The Hall, Hook**  
**Goole North Humberside DN14 5PL(GB)**

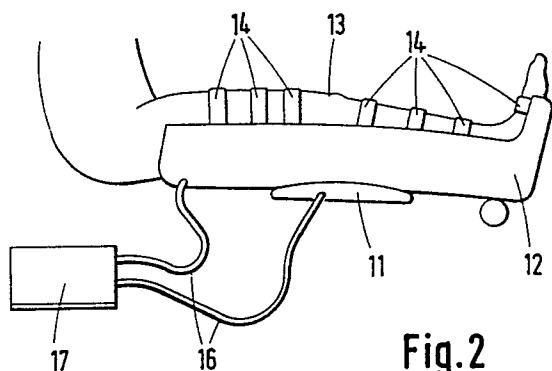
74 Representative: **Cole, William Gwyn**  
**Corporate Patents Department Smith and**  
**Nephew Research Limited Gilston Park**  
**Harlow Essex CM20 2RQ(GB)**

54 **Continuous passive motion device for limbs.**

57 A device for the passive movement of limbs comprising co-operating inflatable bags (11, 12) and associated inflation and deflation means (17), wherein a first bag (11) is adapted, when inflated to raise the joint and a second bag (12) is adapted, when inflated to straighten the limb, said inflation and deflation means being (17) arranged to alternately inflate one bag (11, 12) and deflate the other bag thereby allowing the limb to be alternately bent and raised at the joint and then straightened and lowered.



**Fig.1**



**Fig.2**

**EP 0 254 522 A3**



EP 87 30 6414

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. 4)
A	US-A-3 937 215 (BARTHLOME) * Column 1, line 56 - column 2, line 25; figures 1,2 * ---	1,19	A 61 H 1/02
A	CH-A- 486 881 (ZIMMERMANN) * Column 2, lines 3-12; figure 3 * ---	1,2,18	
A	US-A-3 536 063 (WERDING) * Column 1, line 68 - column 2, line 14; figures 2,3 * ---	1,3,4, 18,19	
A	US-A-4 003 374 (MIZRACHY) * Column 2, line 67 - column 3, line 7; column 3, lines 33-46; figure 2 * ---	5	
A	GB-A-2 122 905 (WELCH) * Page 1, line 117 - page 2, line 15; figures 3,4 * ---	1,6	
A	FR-A-1 035 755 (SOYER) * Figure 5 * ---	7	
A	FR-A-2 468 360 (PECHEUX) * Figures 1-3 * -----	10,15- 17	TECHNICAL FIELDS SEARCHED (Int. Cl.4)  A 61 H A 61 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 24-01-1989	Examiner SCHOENLEBEN J.E.F.
<b>CATEGORY OF CITED DOCUMENTS</b> 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			