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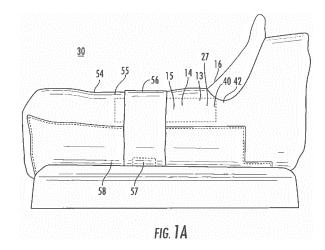
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(54) COMPRESSION DEVICE IN COMBINATION WITH LOWER LIMB PROTECTION

(57)The present invention relates to a support system for a body part including a compression device in combination with a lower leg protection system. The support system comprises: an inner positioner (14) formed of bladder (13) including fluidized material therein which can retain its shape after sculpting; an outer support (52) comprising a top layer, a first intermediate layer, a second intermediate layer, and a bottom layer; a first plenum formed between the top layer and the first intermediate layer, the top layer includes perforations; a first valve connected to the first plenum and a first pump, said first pump providing air through the first valve to said first plenum to create air flow into the plenum and out through the perforations; a second plenum formed between the first intermediate layer and the second intermediate layer and second pump, a second valve connecting to the second pump, said second pump provides air to the second plenum to inflate said second plenum in an intermittent or sequential manner; and a third plenum formed between the second intermediate layer and the bottom layer, said third plenum containing a fixed amount of static air. The outer support can include a rigid outer shell for providing support.



DOCUMENTS CONSIDERED TO BE RELEVANT



EUROPEAN SEARCH REPORT

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- A : technological background O : non-written disclosure P : intermediate document

	DOCUMENTO CONCIDE	LILLE TO BE I	LLLVAIII		
Category	Citation of document with inc of relevant passa		opriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X Y	US 2012/316481 A1 (AL) 13 December 2013 * the whole documen	2 (2012-12-13		1-10, 13-22,30 11,12, 23,24,31	INV. A61H9/00
Y	US 2007/282230 A1 ('[CH] ET AL) 6 December * paragraphs [0039]	ber 2007 (200	97-12-06)	11,12, 23,24,31	
					TECHNICAL FIELDS SEARCHED (IPC)
	The present search report has b		olaims oletion of the search		Examiner
	Munich	•	gust 2016	Sch	ut, Timen
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anoth iment of the same category inological background -written disclosure mediate document		T: theory or principle E: earlier patent doc after the filling date D: document cited in L: document cited fo	le underlying the in sument, but publis en the application or other reasons	vention hed on, or



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	CLAIMS INCURRING FEES						
	The present European patent application comprised at the time of filing claims for which payment was due.						
10	Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):						
15	No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.						
20	LACK OF UNITY OF INVENTION						
	The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:						
25							
	see sheet B						
30							
	All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.						
35	As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.						
40	Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:						
45	None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention						
50	first mentioned in the claims, namely claims:						
55	The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).						



LACK OF UNITY OF INVENTION **SHEET B**

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The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-24, 30, 31

A support system for a body part comprising: an inner positioner, an outer support comprising a first plenum and a second plenum and a rigid outer shell surrounding or integral with the outer support and the corresponding method

2. claims: 25-29, 32, 33

A support system for a body part comprising:an inner positioner, an outer support comprising a first plenum, a second plenum and a third plenum and the corresponding method.

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

EP 16 16 0997

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.

26-08-2016

Patent document cited in search report			Publication date		Patent family member(s)		Publication date
US	2012316481	A1	13-12-2012	NONE			
US	2007282230	A1	06-12-2007	US WO	2007282230 / 2007078845 /	41 42	06-12-200 12-07-200

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