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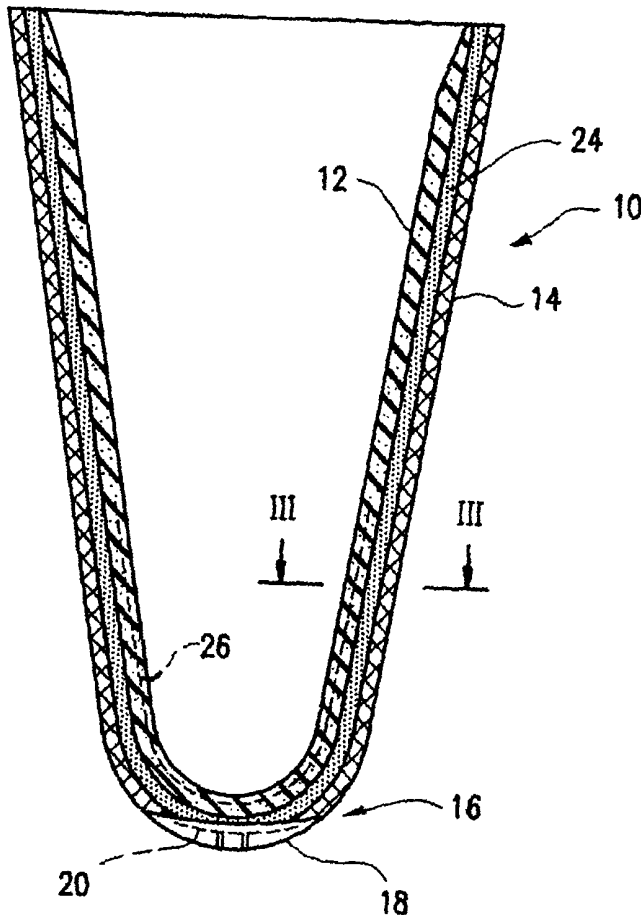
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[Continued on next page]

(54) Title: COMPOSITE ELASTIC MATERIAL



(57) Abstract: A composite elastic material useful for prosthetic applications is constituted of at least one cured silicone elastomer layer (12) containing silicone oil and hollow microspheres (28) dispersed throughout the elastomer layer (12). An elasticized fabric layer (14) may be intimately bonded to one side of the silicone elastomer layer (12) and the composite elastic material may be incorporated in various prosthetic appliances, including suction liners and sealing sleeves. When used in a suction liner, the composite elastic material may be molded to provide a thicker anterior wall (50) and a thinner posterior wall (54) with a smooth transition between the anterior and posterior walls. The composite elastic material covered with an elasticized fabric may be used as a sealing sleeve between a prosthetic device and a residual limb. The composite elastic material may contain one or more skin treating agents blended into the silicone elastomer.



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IPC(7) : A61F 2/78; B32B 27/04, 27/12 US CL : 623/36; 428/447, 300.7 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols) U.S. : 623/36, 37, 34, 32, 35, 33; 428/447, 300.7, 35.7, 36.2, 295.1, 297.4, 402, 406, 407		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 3,634,136 A (LA HABRA et al) 11 January 1972 (11.01.1972), abstract, columns 2-7.	1-34
A	US 4,923,474 A (KLASSON et al) 8 May 1990 (08.05.1990), abstract.	1-34
Y	US 5,507,834 A (LAGHI) 16 April 1996 (16.04.1996), abstract, columns 2-6.	1-34
Y	US 5,830,237 A (KANIA) 03 November 1998 (03.11.1998), abstract, columns 3-11.	1-34
A	US 5,571,208 A (CASPER) 05 November 1996 (05.11.1996), abstract.	1-34
P, Y	US 6,183,766 A (SINE et al) 06 February 2001 (06.02.2001), abstract, columns 3-11.	1-34
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