

Title (en)  
APPARATUS FOR THE TREATMENT OF HUMAN LIMBS BY INTERMITTENT COMPRESSION

Publication  
**EP 0327879 A3 19900523 (DE)**

Application  
**EP 89101217 A 19890125**

Priority  
DE 3804016 A 19880210

Abstract (en)  
[origin: EP0327879A2] The apparatus consists of at least one cuff (2) with a number of chambers (13). The cuff can be applied around the limb of the patient to be treated and, following this, it is possible to inflate and remove air from the chambers (13) with the aid of valves (15). <??>To obtain an optimum treatment of the patient and a simple construction of the apparatus, all the valves (15) are connected in series and can be controlled one after the other in a cascade fashion via a common control line (12). In addition, a supply line (11) and the control line (12) are connected only to the first valve (15a), whereas, downstream, in each case two adjacent valves (15) are connected to one another by supply and control line sections (11a to e and 12a to e). <??>The valve body (29) of each valve (15a, 15) separates a supply space (33) of the valve, which communicates constantly on the one hand with a supply line part and on the other hand with the associated chamber, from a control space (32) of the valve communicating with the control line. After the associated chamber (13) has been filled, the valve body (29) of the valve releases a valve opening (30), as a result of which supply air can pass to the next valve (15) in each case, in order to inflate the chamber (13) belonging to this valve.

IPC 1-7  
**A61H 23/04**; **A61F 5/34**

IPC 8 full level  
**A61H 9/00** (2006.01); **A61H 23/04** (2006.01)

CPC (source: EP US)  
**A61H 9/0078** (2013.01 - EP US); **A61H 2201/1697** (2013.01 - EP US); **A61H 2201/5053** (2013.01 - EP US); **Y10S 128/20** (2013.01 - EP US)

Citation (search report)  
• [XP] FR 2617397 A1 19890106 - FRAJDENRAJCH JEAN [FR]  
• [X] WO 8501868 A1 19850509 - MICRODIALOGSYSTEM [SE]  
• [X] DE 3009408 A1 19810917 - ECK LEONHARD HEINRICH  
• [Y] DE 2753523 A1 19790607 - HYDROLA LTD  
• [Y] GB 2017508 A 19791010 - MINNESOTA MINING & MFG  
• [Y] DE 837750 C 19520502 - HERBERT KRIEG DR  
• [A] US 4702232 A 19871027 - GARDNER ARTHUR M N [GB], et al  
• [A] DE 8530877 U1 19851219  
• [A] US 4066084 A 19780103 - TILLANDER HANS  
• [A] GB 2077108 A 19811216 - KENDALL & CO  
• [A] DE 2603132 A1 19770804 - ZEPPELIN DIETER VON

Cited by  
US5741294A; RU2644927C1; US5174281A; EP0916332A1; FR2771001A1

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