

Title (en)  
Heating pad

Title (de)  
Heizkissen

Title (fr)  
Coussin chauffant

Publication  
**EP 2641509 A1 20130925 (FR)**

Application  
**EP 12161031 A 20120323**

Priority  
EP 12161031 A 20120323

Abstract (en)  
The pad (1) has an inflatable envelope (2) comprising an upper face (4) and a lower face. A heat producing element (5) is placed above or in contact with the upper face of the envelope. The heating element is connected to a power source (6) to generate heat. The envelope, the heating element and the power source are included in an outer envelope (7). The inflatable envelope is provided with a valve (8) for admitting, expelling or blocking fluid or gas to an interior of the inflatable envelope to form a cushion when the fluid or the gas is blocked in the inflatable envelope. The inflatable envelope is an auto-inflatable envelope. The heat producing element includes a carbon black and/or carbon nanotubes within a silicone matrix. The inflatable envelope comprises an internal medium with a polymeric cellular matrix.

Abstract (fr)  
L'invention concerne un coussin chauffant (1) comprenant une enveloppe gonflable munie d'une soupape (8) permettant d'admettre, d'expulser ou de bloquer un fluide ou un gaz à l'intérieur de la dite enveloppe gonflable, de façon à former un coussin lorsque le fluide ou le gaz est admis et bloqué dans ladite enveloppe gonflable, ladite enveloppe gonflable possédant au moins une face supérieure (4) et une face inférieure (3). Un élément producteur de chaleur (5) est placé au-dessus, ou en contact, avec la face supérieure (4) de l'enveloppe gonflable. Cet élément chauffant (5) est connecté à une source d'énergie (6) afin de produire de la chaleur. L'enveloppe gonflable, l'élément chauffant (5) et la source d'énergie (6) sont compris dans une enveloppe externe (7).

IPC 8 full level  
**A47C 7/74** (2006.01); **A47C 4/54** (2006.01); **A47C 7/02** (2006.01)

CPC (source: EP US)  
**A47C 4/54** (2013.01 - EP); **A47C 7/021** (2013.01 - EP US); **A47C 7/748** (2013.01 - EP)

Citation (applicant)  
WO 2005023057 A1 20050317 - M & J BOTTOMLINE LLC [US]

Citation (search report)  
• [XYI] CN 202009897 U 20111019 - YANTING LIU  
• [XYI] US 5771514 A 19980630 - WILHOIT CHRISTOPHER S [US]  
• [XYI] KR 100996158 B1 20101123 - PARK KOOK CHEOL [KR]  
• [XYI] US 5979975 A 19991109 - HIRAOKA MARC N [US]  
• [I] DE 202004019078 U1 20050310 - MUEHLBERGER GMBH [DE]  
• [Y] CN 201888551 U 20110706 - SHUYA CAO

Cited by  
CN107303098A

Designated contracting state (EPC)  
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BA ME

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