

Title (en)  
Heated or cooled cushion pad

Title (de)  
Beheiztes oder gekühltes Polster

Title (fr)  
Coussin avec système de chauffage et de refroidissement

Publication  
**EP 1129647 A1 20010905 (EN)**

Application  
**EP 00301606 A 20000229**

Priority  
EP 00301606 A 20000229

Abstract (en)  
A cushion pad 10 for an automobile seat or a mattress has an internal plenum 16 connected to a heat pump 44 through an air inlet duct 42. The bottom and sides of the plenum 16 are covered with an air impervious layer 14. The top of the plenum is covered with an air permeable layer 20. The plenum 16 is formed as a plurality of tubes arranged side by side in a single layer. The walls of the tubes are formed as an open weave of monofilaments 36 so that pressurised conditioned air from the heat pump 44 passing into the plenum 16 through the air inlet duct 42 can pass along the tubes with a relatively low back pressure and transversely through the walls of the tube and through the air permeable layer with a higher back pressure. <IMAGE>

IPC 1-7  
**A47C 7/74**

IPC 8 full level  
**A47C 21/04** (2006.01); **A47C 7/74** (2006.01)

CPC (source: EP)  
**A47C 7/74** (2013.01); **A47C 7/748** (2013.01); **A47C 21/048** (2013.01)

Citation (applicant)  
• EP 0811340 A2 19971210 - STRAEHLE & HESS [DE]  
• US 5002336 A 19910326 - FEHER STEVE [US]

Citation (search report)  
• [A] EP 0811340 A2 19971210 - STRAEHLE & HESS [DE]  
• [A] DE 19835887 A1 19990624 - GROSS TORSTEN [DE]  
• [A] US 5524439 A 19960611 - GALLUP DAVID F [US], et al  
• [A] DE 3903303 A1 19900809 - WUNDERATZKE WILFRIED [DE], et al

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CN110638248A; WO2014121273A3; US9155398B2; US9833077B2; WO2022051851A1

Designated contracting state (EPC)  
DE FR GB IT

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