

Title (en)

COUNTERWEIGHT MASSAGING AND BUFFERING CONVECTIVE AIRBAG CUSHION

Title (de)

KONVEKTIVES GEGENGEWICHTSMASSAGE- UND PUFFERUNGSAIRBAGKISSEN

Title (fr)

COUSSIN DE SÉCURITÉ GONFLABLE À CONVECTION DE MASSAGE ET AMORTISSEMENT À CONTREPOIDS

Publication

EP 3248501 B1 20181226 (EN)

Application

EP 16884239 A 20160525

Priority

- CN 201620251982 U 20160328
- CN 2016083389 W 20160525

Abstract (en)

[origin: EP3248501A1] A convective air pad with weight balancing and massage buffering effect, which includes a pad body (1), convective air chamber (2) integrally and uniformly arranged on a surface side of the pad body (1), wherein the convective air chamber (2) is filled with gas, wherein the convective air chamber (2) includes airbag members (21), a convective channel (22) connected between each two adjacently positioned airbag members (21), and a ventilation gap (23) provided between each two adjacently positioned airbag members (21). Through the convective air chamber (2) on the pad body (1), the load-bearing portion is in direct contact with the convective air chamber (2) to provide a very strong weight reducing and pressure buffering effect, thus effectively reduce the stress from the load to the load-bearing portions. The convective air chamber (2) is formed by a number of interconnecting airbag members (21) so that the pressure can be dispersed effectively by gas movement through the convective channels (22), therefore the load is translated into massage effect on the load-bearing parts through the interconnecting airbag members (21) and hence the fatigue and pain in the load-bearing parts is greatly reduced. Moreover, since ventilation gap is formed between the airbag members (21), the contact area between the load-bearing parts is effectively reduced while a superior ventilation effect is provided, hence the heat is dissipated effectively and timely and the comfort level is increased.

IPC 8 full level

A45F 3/04 (2006.01); **A45F 3/12** (2006.01)

CPC (source: EP KR US)

A43B 17/08 (2013.01 - EP KR US); **A45F 3/04** (2013.01 - EP US); **A45F 3/12** (2013.01 - EP KR US); **A45F 2003/122** (2013.01 - EP US); **A45F 2003/125** (2013.01 - KR); **A45F 2003/127** (2013.01 - EP KR US)

Cited by

CN109771833A

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3248501 A1 20171129; **EP 3248501 A4 20180228**; **EP 3248501 B1 20181226**; ES 2715454 T3 20190604; JP 3220621 U 20190328; KR 20190000424 U 20190213; US 2018103723 A1 20180419; WO 2017166411 A1 20171005

DOCDB simple family (application)

EP 16884239 A 20160525; CN 2016083389 W 20160525; ES 16884239 T 20160525; JP 2017600085 U 20160525; KR 20187000074 U 20160525; US 201615542062 A 20160525