

Title (en)
AIRBED WITH DETACHABLE ELECTRIC PUMP

Title (de)
LUFTMATRAZE MIT ABNEHMBARE ELEKTRISCHE PUMPE

Title (fr)
MATELAS PNEUMATIQUE AVEC POMPE ÉLECTRIQUE DÉTACHABLE

Publication
EP 3453885 A1 20190313 (EN)

Application
EP 18187625 A 20180807

Priority
CN 201710816096 A 20170912

Abstract (en)
An airbed is provided with an inflation and deflation valve, which includes a base fixedly disposed at an inflation and deflation port and a sealing plug detachably disposed on the base. The airbed has an innovation that an electric air pump is part of the sealing plug and is integrated with the sealing plug. A housing of the electric air pump is used as part of the inflation and deflation valve of the airbed and serves as the sealing plug of the inflation and deflation valve. When the airbed needs to be deflated, the electric air pump is directly removed, and then air is rapidly exhausted through a large diameter exhaust port. The airbed can be produced in advance without being limited by the specification of the electric air pump, and afterwards, the electric air pump is screwed or buckled on the airbed in a sealed manner. After being detached from the airbed, the electric air pump can serve as a common electric air pump to be applied to other inflatable products. Once the electric air pump has quality problems, better after-sales services can be provided, and thus, the after cost and manufacturing cost of products are reduced.

IPC 8 full level
F04D 25/06 (2006.01); **A47C 27/08** (2006.01)

CPC (source: CN EP US)
A47C 27/082 (2013.01 - CN EP US); **F04D 25/084** (2013.01 - EP US); **F04D 29/083** (2013.01 - EP US); **F04D 29/603** (2013.01 - EP US)

Citation (search report)

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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

Designated extension state (EPC)
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DOCDB simple family (publication)
DE 202018104789 U1 20181121; CN 109480533 A 20190319; EP 3453885 A1 20190313; US 2019075930 A1 20190314

DOCDB simple family (application)
DE 202018104789 U 20180821; CN 201710816096 A 20170912; EP 18187625 A 20180807; US 201816102736 A 20180814