

Title (en)  
ELECTRIC AIR PUMP

Title (de)  
ELEKTRISCHE LUFTPUMPE

Title (fr)  
POMPE ÉLECTRIQUE À AIR

Publication  
**EP 3228870 A1 20171011 (EN)**

Application  
**EP 16275182 A 20161230**

Priority  
CN 201620276106 U 20160405

Abstract (en)  
The present disclosure provides an electric air pump which includes: a first housing including a cavity; a first air pump arranged inside the cavity, the first air pump being provided with a fan blade cover that divides the cavity into a fan blade cavity and a driving cavity; a switch driving device arranged inside the driving cavity, connected to the first air pump, and adapted to drive a switching between air passages; an air pressure sensor arranged inside the driving cavity for detecting an internal pressure value of an inflatable body; a central control unit arranged inside the driving cavity and electrically connected to the first air pump, the switch driving device, and the air pressure sensor; and at least one panel covering the cavity opening of the cavity. The electric air pump can precisely control an inflation pressure, and automatically and silently supplement air via an air supplement pump.

IPC 8 full level  
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CPC (source: EP US)  
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**F04D 25/084** (2013.01 - EP US); **F04D 25/166** (2013.01 - EP); **F04D 27/00** (2013.01 - US); **F04D 27/005** (2013.01 - US);  
**F04D 27/008** (2013.01 - EP); **F04D 29/503** (2013.01 - EP)

Citation (search report)  
• [YA] US 2011020149 A1 20110127 - TSAI CHUN-CHUNG [CN]  
• [Y] US 2015316068 A1 20151105 - TSAI CHUN-CHUNG [CN]  
• [A] US 2014208735 A1 20140731 - CHAFFEE ROBERT B [US]  
• [A] US 2010247337 A1 20100930 - TSAI CHUN-CHUNG [CN]

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)  
BA ME

DOCDB simple family (publication)  
**EP 3228870 A1 20171011**; CN 205779791 U 20161207; CN 205779791 U9 20170111; US 2017280884 A1 20171005

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**EP 16275182 A 20161230**; CN 201620276106 U 20160405; US 201615391529 A 20161227