

Title (en)  
Improved air pump

Title (de)  
Verbesserte Luftpumpe

Title (fr)  
Pompe à air améliorée

Publication  
**EP 1571338 A1 20050907 (EN)**

Application  
**EP 04005330 A 20040305**

Priority  
EP 04005330 A 20040305

Abstract (en)  
An air pump includes a mount member (10) having a main body (13) and a chamber (17). An air bag set (30) has a substrate (31), two air bags (33), each of which have an air chamber (35) and a linking portion (335). An insulating plate (40) has a plate member (41), two inlets (43) and two outlets (45) communicated with the air chambers (35) of the air bags respectively. A ventilation part (50) has a pad member (51), two inlet valves (53) and two outlet valves (55), both of which are communicated with the inlets (43) and the outlets (45) of the insulating plate respectively. An air guide device (60) has a main member (61), two inlets (63) and two outlets (68), both of which are communicated with the inlet (53) and outlet valves (55) of the ventilation part respectively. A linking assembly (70) has a rotary base (71) and a linking portion (85) connected to the linking portion (335) of the air bag set (30). <IMAGE>

IPC 1-7  
**F04B 45/04**

IPC 8 full level  
**F04B 45/04** (2006.01); **F04B 45/047** (2006.01)

CPC (source: EP US)  
**F04B 45/043** (2013.01 - EP US); **F04B 45/047** (2013.01 - EP US)

Citation (search report)

- [A] US 2003031571 A1 20030213 - YAMAKAWA MUNE HARU [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 09 3 September 2003 (2003-09-03)
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 06 30 June 1997 (1997-06-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12 5 December 2003 (2003-12-05)

Cited by  
CN102840119A; CN109838363A; CN108926391A; WO2020199924A1; WO2013029532A1; WO2023109317A1

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