

Title (en)  
Inflator with drop-in batteries and universal adapters

Title (de)  
Batteriebetriebene Aufblasvorrichtung mit Universaladaptor

Title (fr)  
Gonfleur entraînée par batterie avec adaptateur universel

Publication  
**EP 0852296 A3 20000126 (EN)**

Application  
**EP 98300052 A 19980106**

Priority  
• US 77884197 A 19970106  
• US 96087997 A 19971030

Abstract (en)  
[origin: EP0852296A2] A portable, battery powered inflator with removable batteries (16,16') which are switch (18) activated. The inflator has an air intake (4) and output (6) for delivering air into a variety of air bladders with different sized valves. The batteries (16,16') are typical dry cells and not rechargeable to save cost. The inflator has a cover (15) that allows quick removable and replacement of the batteries. An adapter assembly including a transition structure and adapters (38,38') are provided to allow inflation of a variety of bladders having different sized valves. The attaching of the transition structure engages the switch (18) completing an electrical circuit that activates the motor (8) to deliver air automatically. <IMAGE>

IPC 1-7  
**F04D 25/08; F04D 25/06**

IPC 8 full level  
**F04D 25/08** (2006.01)

CPC (source: EP)  
**F04D 25/0673** (2013.01); **F04D 25/084** (2013.01)

Citation (search report)  
• [DY] US 5267363 A 19931207 - CHAFFEE ROBERT B [US]  
• [Y] US 5068933 A 19911203 - SEXTON EUGENE D [US]  
• [Y] US 4678014 A 19870707 - OWEN CHARLES B [US], et al  
• [Y] US 5111838 A 19920512 - LANGSTON LONNIE W [US]  
• [A] US 4516561 A 19850514 - STAWSKI KARL-HEINZ [US], et al  
• [A] US 3647323 A 19720307 - THOMAS JOHN C  
• [A] EP 0472365 A1 19920226 - LAUER TOYS INC [US]  
• [A] US 4146069 A 19790327 - ANGAROLA BARRY R, et al

Cited by  
CN109441852A; AU760985B2; AU2003243994B2; AU2003244024B2; EP1359325A3; US9752693B2; US6990994B2; WO0009890A1; US6237653B1; US6598626B2; JP2002522708A; US6237621B1; US6508264B2; US6755208B2; US6986360B2; US7938138B2; US8307841B2; US9086162B2

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0852296 A2 19980708; EP 0852296 A3 20000126**

DOCDB simple family (application)  
**EP 98300052 A 19980106**