

Title (en)  
AIRLESS SPRAY PUMP

Title (de)  
LUFTLOSE ZERSTÄUBERPUMPE

Title (fr)  
POMPE A PULVERISATION SANS AIR COMPRIME

Publication  
**EP 1208287 B1 20060726 (EN)**

Application  
**EP 00961390 A 20000828**

Priority  
• US 0023613 W 20000828  
• US 15179499 P 19990831  
• US 16694699 P 19991122

Abstract (en)  
[origin: WO0116462A1] An airless spray pump (10) is provided with a single-acting piston pump which allows the use of a low-cost yoke (30) drive. Motor and pump shaft are offset for most efficient force utilization.

IPC 8 full level  
**F04B 9/04** (2006.01); **F04B 9/02** (2006.01); **F04B 53/16** (2006.01); **F04B 53/20** (2006.01)

CPC (source: EP KR US)  
**F04B 9/02** (2013.01 - EP US); **F04B 9/045** (2013.01 - EP US); **F04B 17/03** (2013.01 - EP US); **F04B 53/168** (2013.01 - EP US);  
**F04C 2/14** (2013.01 - KR)

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**WO 0116462 A1 20010308**; AU 7334800 A 20010326; CN 1171004 C 20041013; CN 1377440 A 20021030; DE 60029597 D1 20060907; DE 60029597 T2 20070712; EP 1208287 A1 20020529; EP 1208287 A4 20050511; EP 1208287 B1 20060726; EP 2280169 A2 20110202; EP 2280169 A3 20111207; EP 2280169 B1 20130501; ES 2269176 T3 20070401; ES 2389607 T3 20121029; ES 2424141 T3 20130927; JP 2003522870 A 20030729; JP 2010223234 A 20101007; JP 4668493 B2 20110413; JP 5060587 B2 20121031; KR 100668583 B1 20070118; KR 20020047133 A 20020621; US RE42706 E 20110920

DOCDB simple family (application)  
**US 0023613 W 20000828**; AU 7334800 A 20000828; CN 00812110 A 20000828; DE 60029597 T 20000828; EP 00961390 A 20000828; EP 10184231 A 20000828; ES 00961390 T 20000828; ES 05077480 T 20000828; ES 10184231 T 20000828; JP 2001519988 A 20000828; JP 2010105055 A 20100430; KR 20027002540 A 20020227; US 79849000 A 20000828