

Title (en)
NOZZLE ASSEMBLY WITH ADJUSTABLE PLUNGER TRAVEL GAP

Title (de)
ANSATZSTÜCKANORDNUNG MIT EINSTELLBAREN KOLBENWEG

Title (fr)
BUSE A INTERVALLE DE COURSE REGLABLE DU PISTON

Publication
EP 0956059 A1 19991117 (EN)

Application
EP 97907842 A 19970224

Priority

- US 9702922 W 19970224
- US 60879996 A 19960229
- US 60913896 A 19960229
- US 60914096 A 19960229
- US 60914696 A 19960229

Abstract (en)
[origin: WO9731665A1] The present invention relates to a nozzle assembly (10) adapted for use with an injector device having an energy generating source, a chamber adapted for holding a fluid, having first and second end portions with an orifice defined at the first end portion for passage of the fluid, and being open at the second end portion. The device includes a first driving member (60) movably positioned in the chamber; a second driving member (70) movably positioned in the chamber, spaced apart from the first driving member according to a predetermined travel distance, and including an end portion operative for expelling fluid out of or drawing fluid into the chamber via the orifice; and a spacing member (80) disposed between the first and second driving members for maintaining said predetermined travel distance during displacement of the first and second driving members before the energy generating source is activated.

IPC 1-7
A61M 5/00

IPC 8 full level
A61M 5/30 (2006.01); **A61M 5/31** (2006.01); **A61M 5/50** (2006.01); **A61M 5/315** (2006.01)

CPC (source: EP KR)
A61M 5/00 (2013.01 - KR); **A61M 5/30** (2013.01 - EP); **A61M 5/5066** (2013.01 - EP); **A61M 2005/31516** (2013.01 - EP);
A61M 2005/5073 (2013.01 - EP)

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)
WO 9731665 A1 19970904; AU 1973897 A 19970916; CN 1216474 A 19990512; EP 0956059 A1 19991117; EP 0956059 A4 19991222;
JP 2001505069 A 20010417; KR 19990087354 A 19991227

DOCDB simple family (application)
US 9702922 W 19970224; AU 1973897 A 19970224; CN 97193997 A 19970224; EP 97907842 A 19970224; JP 53106897 A 19970224;
KR 19980706764 A 19980828