

Title (en)  
Extrusion device with dosage device

Title (de)  
Auspressvorrichtung mit Dosiervorrichtung

Title (fr)  
Dispositif d'extrusion avec dispositif de dosage

Publication  
**EP 1378296 A3 20061004 (DE)**

Application  
**EP 03405442 A 20030619**

Priority  
DE 10229731 A 20020702

Abstract (en)  
[origin: EP1378296A2] Injecting machine for discharging a substance, especially a pneumatic injecting machine, comprises a housing (1), an injecting device (2) having an elongated injecting part (3) for storing and discharging the substance, and a dosing device (4) for selecting a dosing rate. The dosing device consists of a restoring device (10), an adjusting device (11) for adjusting the dosing rate, and a carrier part (12) interacting with the injecting part and moved by the restoring device from an end position into a starting position. The dosing device has a movement converter (13) which pivots the carrier part relative to the housing on movement of the injecting part in the longitudinal direction (L). Preferred Features: The movement converter has a twisting shaft (15) and a nut part (16) interacting with the twisting shaft. One of these parts is arranged on the carrier part and the other part on the injecting part.

IPC 8 full level  
**B05C 17/015** (2006.01)

CPC (source: EP US)  
**B05C 17/015** (2013.01 - EP US)

Citation (search report)

- [DA] US 5020693 A 19910604 - ERNST RICHARD J [US], et al
- [A] US 6241130 B1 20010605 - HEIBERGER FRANZ [CH]
- [A] WO 9840167 A1 19980917 - OMRIX BIOPHARM SA [BE], et al

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1378296 A2 20040107; EP 1378296 A3 20061004; EP 1378296 B1 20081022**; AT E411851 T1 20081115; CA 2433912 A1 20040102; CA 2433912 C 20110419; DE 10229731 A1 20040115; DE 50310663 D1 20081204; ES 2314168 T3 20090316; US 2004065692 A1 20040408; US 7073689 B2 20060711

DOCDB simple family (application)  
**EP 03405442 A 20030619**; AT 03405442 T 20030619; CA 2433912 A 20030627; DE 10229731 A 20020702; DE 50310663 T 20030619; ES 03405442 T 20030619; US 60633803 A 20030625