

Title (en)
THREE-CHAMBER AUTOMATIC INJECTOR

Title (de)
AUTOMATISCHES INJEKTIONSGERÄT MIT DREI KAMMERN

Title (fr)
INJECTEUR AUTOMATIQUE À TROIS CHAMBRES

Publication
EP 2259817 A1 20101215 (EN)

Application
EP 09713365 A 20090220

Priority
• CZ 2009000021 W 20090220
• CZ 2008102 A 20080222
• CZ 2009101 A 20090220

Abstract (en)
[origin: WO2009103251A1] Injector allowing to mix, dissolve and apply medicine stored in mutually separated chambers consists of the body (1) where its inside contains a pushing mechanism and a part with three separated chambers (19, 18 and 30) with injection needle (16). The chambers (19, 18 and 30) are mutually separated by pistons (10, 11 and 12), the second chamber (18) contains bypass connection (29). In the third chamber (30), an injection needle (16) is fixed inside the guide cylinder (17) located below the third piston (12), and the guide cylinder (17) is equipped with bypasses (22) connecting the third chamber (30) with the entry of the injection needle (16). The third chamber (30) is equipped with the second section (21) with diameter by 5 to 10 % larger than diameters of the other chambers and is closed by end cap (13). The part with three separated chambers (19, 18 and 30) is formed by replaceable cartridge (7).

IPC 8 full level
A61M 5/20 (2006.01)

CPC (source: EP)
A61M 5/2066 (2013.01); **A61M 5/2033** (2013.01); **A61M 2005/206** (2013.01)

Citation (search report)
See references of WO 2009103251A1

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Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
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