

Title (en)
Injection nozzle

Title (de)
Einspritzdüse

Title (fr)
Buse d'injection

Publication
EP 2700454 A1 20140226 (EN)

Application
EP 13150894 A 20130110

Priority
US 201261691823 P 20120822

Abstract (en)
In order to overcome the problems that earlier apparatus have experienced, an injection nozzle (10) is proposed, comprising: - a plastic body portion (12) having a first end (16) and a second end (14) opposed to the first end (16); - a bore or passageway (18) extending through the plastic body portion (12) and having a first opening proximate the first end (16) and a second opening at the second end (14); and - a plurality of channels (22) in communication with the first opening, each one of the plurality of channels (22) terminating in a corresponding aperture (24) at the first end (16).

IPC 8 full level
B01F 15/06 (2006.01); **B05B 1/14** (2006.01)

CPC (source: EP KR)
B01F 35/91 (2022.01 - EP KR); **B05B 1/14** (2013.01 - EP KR); **B01F 2035/98** (2022.01 - EP KR)

Citation (search report)

- [XAI] WO 2009120441 A1 20091001 - ENVIROTECH SERVICES INC [US], et al
- [X] US 2009209949 A1 20090820 - INGLE FRANK [US], et al
- [A] FR 2710735 A1 19950407 - DECO RELIEF [FR]
- [A] GB 2186357 A 19870812 - FOSTER REFRIGERATOR

Cited by
EP3165854A1; US2021247028A1; GB2547489A; EP3009006A1; AU2015333961B2; AU2015333961B8; AU2015333961A8; US10375979B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2700454 A1 20140226; EP 2700454 B1 20150506; EP 2700454 B8 20150624; AU 2013305876 A1 20150312; AU 2013305876 B2 20170810; BR 112015003622 A2 20170704; CA 2882567 A1 20140227; CN 104781012 A 20150715; CN 104781012 B 20170517; DK 2700454 T3 20150803; ES 2543702 T3 20150821; HR P20150803 T1 20150911; HU E025099 T2 20160128; KR 20150043500 A 20150422; PH 12015500377 A1 20150420; PH 12015500377 B1 20150420; PL 2700454 T3 20151030; RS 54116 B1 20151231; RU 2015109942 A 20161010; SG 11201501284W A 20150528; WO 2014031725 A2 20140227; WO 2014031725 A3 20140417

DOCDB simple family (application)
EP 13150894 A 20130110; AU 2013305876 A 20130821; BR 112015003622 A 20130821; CA 2882567 A 20130821; CN 201380051234 A 20130821; DK 13150894 T 20130110; ES 13150894 T 20130110; HR P20150803 T 20150723; HU E13150894 A 20130110; KR 20157007049 A 20130821; PH 12015500377 A 20150220; PL 13150894 T 20130110; RS P20150486 A 20130110; RU 2015109942 A 20130821; SG 11201501284W A 20130821; US 2013055952 W 20130821