Title (en)
Method for the production of an output-ion-stream

Title (de)
Verfahren zur Gewinnung eines Ausgangs- Ionenstroms

Title (fr)
Méthode pour la production d'un courant ionique sortant

Publication
EP 1566829 B1 20070808 (DE)

Application
EP 04028501 A 20041202

Priority
AT 20192003 A 20031216

Abstract (en)
[origin: EP1566829A2] An output ion current of a single ionic species is produced by reacting ions formed in ionization of a source gas and/or ions extracted from ionization region, in a region in which source gas is located until source ionic species that do not react with the source gas are present. A reactant gas different from the source gas reacts with the ions of the source ionic species to convert the ions of the source ionic species into the single ionic species. The production of output ion current comprised of a single ionic species, involves reacting ions formed in ionization of a source gas in an ionization region (A) and/or ions extracted from the ionization region in a region in which source gas is located, until source ionic species are present that do not react with the source gas. A reactant gas different from the source gas is supplied to a reaction region (C) located outside of the ionization region and in which ions of the source ionic species are present. It reacts with the ions of the one or several source ionic species to convert the ions of the source ionic species into the single ionic species forming the output ion current.

IPC 8 full level
H01J 49/14 (2006.01); **H01J 49/04** (2006.01); **H01J 49/26** (2006.01)

IPC 8 main group level
H01M 8/00 (2016.01)

CPC (source: EP US)
H01J 49/04 (2013.01 - EP US); **H01J 49/145** (2013.01 - EP US); **H01J 49/26** (2013.01 - EP US)

Cited by
WO2016135179A1; WO2015024033A1; EP2421024A1; WO2012022772A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1566829 A2 20050824; **EP 1566829 A3 20060802**; **EP 1566829 B1 20070808**; AT 413463 B 20060315; AT A20192003 A 20050715; AT E369621 T1 20070815; DE 502004004565 D1 20070920; US 2005178956 A1 20050818; US 7009175 B2 20060307

DOCDB simple family (application)
EP 04028501 A 20041202; AT 04028501 T 20041202; AT 20192003 A 20031216; DE 502004004565 T 20041202; US 41204 A 20041201