

Title (en)
FLOW FIELD OF A FUEL CELL

Title (de)
STRÖMUNGSFELD EINER BRENNSTOFFZELLE

Title (fr)
CHAMP D'ÉCOULEMENT D'UNE PILE À COMBUSTIBLE

Publication
EP 3314687 A1 20180502 (DE)

Application
EP 16719403 A 20160429

Priority
• DE 102015211893 A 20150626
• EP 2016059591 W 20160429

Abstract (en)
[origin: WO2016206840A1] The technology disclosed here relates to a fuel cell having an ion-selective separator, a gas diffusion layer and a separator plate. The separator plate forms, together with the gas diffusion layer, at least one gas-conducting flow field. At least one first convergent duct section and at least one first divergent duct section are formed in the flow field, wherein the convergent duct section lies adjacent to the divergent duct section. A first barrier is provided between the convergent duct section and the divergent duct section such that the gas flows at least partially through the gas diffusion layer in order to pass directly from the convergent duct section into the divergent duct section. At least one additional convergent duct section, at least one additional divergent duct section and at least one additional barrier are provided downstream of the at least one convergent duct section and/or downstream of the at least one divergent duct section.

IPC 8 full level
H01M 8/1004 (2016.01); **H01M 8/0265** (2016.01); **H01M 8/1007** (2016.01)

CPC (source: EP US)
H01M 8/0263 (2013.01 - US); **H01M 8/0265** (2013.01 - EP US); **H01M 8/04201** (2013.01 - US); **H01M 8/1004** (2013.01 - EP US); **H01M 8/1007** (2016.02 - EP US); **H01M 2008/1095** (2013.01 - US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)
See references of WO 2016206840A1

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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102015211893 A1 20161229; CN 107580734 A 20180112; CN 107580734 B 20201229; EP 3314687 A1 20180502; US 11145878 B2 20211012; US 2018076469 A1 20180315; WO 2016206840 A1 20161229

DOCDB simple family (application)
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