

Title (en)
HYDROGEN PURIFICATION DEVICES

Title (de)
VORRICHTUNGEN ZUR WASSERSTOFFREINIGUNG

Title (fr)
DISPOSITIFS DE PURIFICATION D'HYDROGÈNE

Publication
EP 3735312 A4 20211020 (EN)

Application
EP 19735938 A 20190103

Priority
• US 201815862474 A 20180104
• US 2019012192 W 20190103

Abstract (en)
[origin: WO2019136156A1] Hydrogen purification devices and their components are disclosed. In some embodiments, the devices may include at least one foil-microscreen assembly disposed between and secured to first and second end frames. The at least one foil- microscreen assembly may include at least one hydrogen-selective membrane and at least one microscreen structure including a non-porous planar sheet having a plurality of apertures forming a plurality of fluid passages. The planar sheet may include generally opposed planar surfaces configured to provide support to the permeate side. The plurality of fluid passages may extend between the opposed surfaces. The at least one hydrogen-selective membrane may be metallurgically bonded to the at least one microscreen structure. In some embodiments, the devices may include a permeate frame having at least one membrane support structure that spans at least a substantial portion of an open region and that is configured to support at least one foil-microscreen assembly.

IPC 8 full level
B01D 53/22 (2006.01); **B01D 63/08** (2006.01); **C01B 3/22** (2006.01); **C01B 3/24** (2006.01); **C01B 3/32** (2006.01); **C01B 3/34** (2006.01); **C01B 3/50** (2006.01)

CPC (source: CN EP KR US)
B01D 53/22 (2013.01 - EP); **B01D 53/228** (2013.01 - CN KR); **B01D 63/082** (2013.01 - KR); **B01D 63/0822** (2022.08 - EP US); **C01B 3/22** (2013.01 - CN); **C01B 3/24** (2013.01 - CN); **C01B 3/32** (2013.01 - CN EP KR); **C01B 3/323** (2013.01 - CN); **C01B 3/34** (2013.01 - CN); **C01B 3/38** (2013.01 - EP KR); **C01B 3/503** (2013.01 - CN EP KR); **C01B 3/505** (2013.01 - CN); **B01D 63/082** (2013.01 - EP); **B01D 2053/222** (2013.01 - EP KR); **B01D 2256/16** (2013.01 - EP KR); **B01D 2313/025** (2013.01 - EP KR); **B01D 2313/146** (2013.01 - EP KR); **B01D 2313/23** (2013.01 - EP KR); **C01B 2203/0233** (2013.01 - EP KR); **C01B 2203/0244** (2013.01 - EP KR); **C01B 2203/025** (2013.01 - EP KR); **C01B 2203/0261** (2013.01 - CN); **C01B 2203/0283** (2013.01 - EP KR); **C01B 2203/0405** (2013.01 - EP KR); **C01B 2203/043** (2013.01 - EP KR); **C01B 2203/044** (2013.01 - EP KR); **C01B 2203/0445** (2013.01 - EP KR); **C01B 2203/047** (2013.01 - CN EP KR); **C01B 2203/0475** (2013.01 - CN); **C01B 2203/048** (2013.01 - CN); **C01B 2203/1217** (2013.01 - CN); **C01B 2203/1223** (2013.01 - CN EP KR); **C01B 2203/1229** (2013.01 - CN EP KR); **C01B 2203/1235** (2013.01 - CN); **C01B 2203/1241** (2013.01 - CN EP KR); **C01B 2203/1247** (2013.01 - CN EP KR); **C01B 2203/16** (2013.01 - EP KR); **Y02E 60/50** (2013.01 - EP KR)

Citation (search report)
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• [A] US 2010068132 A1 20100318 - VENCILL THOMAS R [US], et al
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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

DOCDB simple family (publication)
WO 2019136156 A1 20190711; CN 111542383 A 20200814; CN 111542383 B 20221004; CN 115445400 A 20221209; EP 3735312 A1 20201111; EP 3735312 A4 20211020; JP 2021509657 A 20210401; JP 2022066480 A 20220428; JP 2023115066 A 20230818; JP 7039710 B2 20220322; JP 7297961 B2 20230626; KR 102448840 B1 20220930; KR 102566860 B1 20230811; KR 20200104388 A 20200903; KR 20220139405 A 20221014; TW 201932403 A 20190816; TW 202045437 A 20201216; TW I700246 B 20200801; TW I724933 B 20210411

DOCDB simple family (application)
US 2019012192 W 20190103; CN 201980007152 A 20190103; CN 202211067088 A 20190103; EP 19735938 A 20190103; JP 2020537176 A 20190103; JP 2022035221 A 20220308; JP 2023097189 A 20230613; KR 20207022167 A 20190103; KR 20227033348 A 20190103; TW 107145920 A 20181219; TW 109122254 A 20181219