

Title (en)
BIPOLAR PLATE WITH FORCE CONCENTRATOR PATTERN

Title (de)
BIPOLARE PLATTE MIT KRAFTKONZENTRATORMUSTER

Title (fr)
PLAQUE BIPOLAIRE À MOTIF CONCENTRATEUR DE FORCE

Publication
EP 3353839 A1 20180801 (EN)

Application
EP 16774604 A 20160920

Priority
• US 201562221276 P 20150921
• US 2016052634 W 20160920

Abstract (en)
[origin: US2017082097A1] Embodiments of present disclosure are directed to a bipolar plate assembly. The bipolar plate assembly has a frame and a base. At least one of the frame and the base has a shape of a force concentrator pattern or has a first surface having a force concentrator pattern, the force concentrator pattern including a raised surface extending partially across the first surface. A surface area of the force concentrator pattern across the length of the frame or base is generally constant, thereby producing a uniform compressive pressure along the length of the frame or base when the bipolar plate assembly is under compression.

IPC 8 full level
H01M 8/1004 (2016.01); **C25B 9/17** (2021.01); **C25B 9/19** (2021.01); **C25B 9/23** (2021.01); **H01M 8/0247** (2016.01); **H01M 8/0273** (2016.01); **H01M 8/0284** (2016.01); **H01M 14/00** (2006.01)

CPC (source: EP KR US)
B01D 53/326 (2013.01 - US); **C01B 3/50** (2013.01 - KR); **C25B 9/23** (2021.01 - KR); **C25B 9/73** (2021.01 - EP US); **C25B 9/75** (2021.01 - KR); **C25B 9/77** (2021.01 - EP US); **C25B 11/031** (2021.01 - EP US); **C25B 11/057** (2021.01 - EP US); **C25B 13/04** (2013.01 - EP US); **F04B 37/18** (2013.01 - KR US); **H01M 8/0247** (2013.01 - EP KR US); **H01M 8/0273** (2013.01 - EP KR US); **H01M 8/0284** (2013.01 - EP KR US); **H01M 8/1004** (2013.01 - EP US); **H01M 8/242** (2013.01 - KR); **H01M 14/00** (2013.01 - EP US); **B01D 2256/16** (2013.01 - US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)
See references of WO 2017053278A1

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)
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