Title (en)

COMPLIANT, STRAIN TOLERANT INTERCONNECTS FOR SOLID OXIDE FUEL CELL STACK

Title (de)

NACHGIBIGE, BELASTUNGSTOLERANTE VERBINDUNGEN FÜR EINEN FESTOXID-BRENNSTOFFZELLENSTAPEL

Title (fr)

INTERCONNEXIONS COMPLIANTES, RESISTANT AUX CONTRAINTES POUR EMPILEMENT DE PILE A COMBUSTIBLE A OXYDE SOLIDE

Publication

EP 1595304 A4 20120215 (EN)

Application

EP 04707406 A 20040202

Priority

- US 2004002865 W 20040202
- US 44402503 P 20030131
- US 45489903 P 20030314
- US 75884304 A 20040116

Abstract (en)

[origin: WO2004070858A2] An interconnect for a solid oxide fuel cell includes a compliant superstructure having a first portion defining a separator plate contact zone and a second portion defining an electrode contact zone, wherein the super structure is porous. In one embodiment, the superstructure is defined by a plurality of compliant substructures provided in a first direction and a plurality of compliant substructures provided in second direction to define a woven structure.

IPC 8 full level

E04B 2/00 (2006.01); **H01M 8/02** (2006.01); **H01M 8/12** (2006.01); **H01M 8/24** (2006.01)

IPC 8 main group level

H01M (2006.01)

CPC (source: EP KR US)

H01M 8/02 (2013.01 - KR); **H01M 8/0232** (2013.01 - EP US); **H01M 8/0254** (2013.01 - EP US); **H01M 8/12** (2013.01 - KR); **H01M 8/2432** (2016.02 - EP US); H01M 2008/1293 (2013.01 - EP US); Y02E 60/50 (2013.01 - EP)

Citation (search report)

- [X] EP 0432381 A1 19910619 - ASEA BROWN BOVERI [CH]
- [XI] DE 19517443 A1 19961114 - MTU FRIEDRICHSHAFEN GMBH [DE]
- [X] US 2002048700 A1 20020425 - VIRKAR ANIL VASUDEO [US], et al
- [X] EP 0410159 A1 19910130 - ASEA BROWN BOVERI [CH]
- [X] WO 9913522 A1 19990318 - CERAMIC FUEL CELLS LTD [AU], et al
- [X] US 4389467 A 19830621 - SINGH RAJ N, et al
- [X] US 5064734 A 19911112 - NAZMY MOHAMED [CH]
- [E] EP 1434294 A1 20040630 - DELPHI TECH INC [US]
- [XP] EP 1294035 A2 20030319 - NGK INSULATORS LTD [JP]
- See references of WO 2004070858A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

WO 2004070858 A2 20040819; **WO 2004070858 A3 20041007**; **WO 2004070858 A9 20041118**; CA 2514488 A1 20040819; EP 1595304 A2 20051116; EP 1595304 A4 20120215; JP 2007524956 A 20070830; KR 20050096960 A 20051006; US 2004200187 A1 20041014

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