

Title (en)
MEMBRANE-ELECTRODE ASSEMBLY COMPRISING TWO COVER LAYERS

Title (de)
MEMBRAN-ELEKTRODEN-ANORDNUNG MIT ZWEI DECKSCHICHTEN

Title (fr)
ENSEMBLE MEMBRANE-ÉLECTRODES À DEUX COUCHES DE RECOUVREMENT

Publication
EP 2652823 A1 20131023 (DE)

Application
EP 11801680 A 20111213

Priority
• DE 102010063254 A 20101216
• EP 2011072603 W 20111213

Abstract (en)
[origin: WO2012080245A1] The invention relates to a membrane-electrode assembly (100), comprising two electrodes (110, 110') and a membrane (120), preferably a polymer electrolyte membrane (PEM), which is disposed between the two electrodes (110, 110'), wherein the membrane-electrode assembly (100) comprises a first cover layer (130; 130') and a second cover layer (140; 140') on at least one flat side, preferably on both flat sides, characterized in that the first cover layer (130; 130') covers an edge face (125, 125') of the membrane (120) and an electrode edge face (115, 115') facing the membrane (120) and the second cover layer (140; 140') partially covers the first cover layer (130; 130'), preferably in edge regions of the membrane-electrode assembly (100). The present invention further relates to a fuel cell which comprises a membrane-electrode assembly (100).

IPC 8 full level
H01M 8/02 (2006.01)

CPC (source: EP US)
H01M 8/0273 (2013.01 - EP US); **H01M 8/0284** (2013.01 - EP US); **H01M 8/12** (2013.01 - US); **H01M 2008/1095** (2013.01 - US); **Y02E 60/50** (2013.01 - EP)

Citation (search report)
See references of WO 2012080245A1

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 2012080245 A1 20120621; DE 102010063254 A1 20120621; EP 2652823 A1 20131023; US 2014302418 A1 20141009

DOCDB simple family (application)
EP 2011072603 W 20111213; DE 102010063254 A 20101216; EP 11801680 A 20111213; US 201113994194 A 20111213