

Title (en)
INSULATING AND SEALING COMPOSITION SUITABLE FOR FUEL CELL ASSEMBLIES

Title (de)
ISOLIERUNGS- UND ABDICHTUNGSZUSAMMENSETZUNG GEEIGNET FÜR BRENNSTOFFZELLENANORDNUNG

Title (fr)
COMPOSITION ISOLANTE ET D'ETANCHEITE

Publication
EP 1312126 A2 20030521 (EN)

Application
EP 01964251 A 20010821

Priority
• US 0126069 W 20010821
• US 64431600 A 20000823

Abstract (en)
[origin: WO0217421A2] A composition and method for sealing and insulating surfaces between mating parts is disclosed. The disclosed process can be applied to insulate and seal fuel cell plates and includes applying a coating precursor on at least one surface of the fuel cell plate, and curing the coating precursor by exposure to radiation. Disclosed coating precursors include those containing an acrylated oligomer and a photoinitiator, which can polymerize in response to ultraviolet or electron beam radiation. The disclosed processes and coating precursors provide certain advantages over conventional methods and designs for insulating and sealing fuel cell plates since the disclosed coating precursors can be quickly and precisely applied to fuel cell plates by, for example, screening printing.

IPC 1-7
H01M 8/02

IPC 8 full level
C09D 175/16 (2006.01); **C09K 3/10** (2006.01); **H01M 8/02** (2006.01)

CPC (source: EP KR)
C09D 175/16 (2013.01 - EP); **C09K 3/10** (2013.01 - EP); **H01M 8/02** (2013.01 - KR); **H01M 8/0271** (2013.01 - EP);
C09K 2003/1062 (2013.01 - EP); **C09K 2200/0625** (2013.01 - EP); **C09K 2200/0685** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP)

Citation (search report)
See references of WO 0217421A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0217421 A2 20020228; **WO 0217421 A3 20030103**; AU 8512801 A 20020304; CA 2420449 A1 20020228; EP 1312126 A2 20030521;
JP 2004507062 A 20040304; KR 20030024905 A 20030326; MX PA03001375 A 20030606

DOCDB simple family (application)
US 0126069 W 20010821; AU 8512801 A 20010821; CA 2420449 A 20010821; EP 01964251 A 20010821; JP 2002521384 A 20010821;
KR 20037002596 A 20030221; MX PA03001375 A 20010821