Title (en)

DETERMINATION OF ALCOHOL CONCENTRATION IN AN ELECTROLYTE OF FUEL CELLS

Title (de)

BESTIMMUNG DER ALKOHOLKONZENTRATION IM ELEKTROLYT VON BRENNSTOFFZELLEN

Title (fr)

DETERMINATION DE LA CONCENTRATION D'ALCOOL DANS L'ELECTROLYTE DE PILES A COMBUSTIBLE

Publication

EP 1218955 A1 20020703 (DE)

Application

EP 00967565 A 20000912

Priority

- DE 0003168 W 20000912
- DE 19945931 A 19990924

Abstract (en)

[origin: WO0124297A1] The invention relates to a method for determining an alcohol concentration in an alcohol/water-mixture of fuel cells operated using said mixture, in particular direct-methanol-fuel cells. The alcohol/water-mixture is pumped through a narrow channel. The differential pressure between the inlet and outlet of said narrow channel, optionally the flow speed of the mixture through the narrow channel and the alcohol concentration thereof are determined.

IPC 1-7

H01M 8/04; G01N 11/08

IPC 8 full level

G01N 11/08 (2006.01); **H01M 8/04186** (2016.01)

CPC (source: EP US)

G01N 11/08 (2013.01 - EP US); **H01M 8/04194** (2013.01 - EP US); Y02E 60/50 (2013.01 - EP)

Citation (search report)

See references of WO 0124297A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0124297 A1 20010405; CA 2385640 A1 20010405; DE 19945931 A1 20010503; EP 1218955 A1 20020703; JP 2003510787 A 20030318; US 2002121129 A1 20020905; US 6536262 B2 20030325

DOCDB simple family (application)

DE 0003168 W 20000912; CA 2385640 A 20000912; DE 19945931 A 19990924; EP 00967565 A 20000912; JP 2001527386 A 20000912; US 10585002 A 20020325