

Title (en)

METHOD FOR MAKING PROTON CONDUCTING MEMBRANES FOR FUEL CELLS BY RADIOGRAFTING

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PROTONENLEITENDEN MEMBRANEN FÜR BRENNSTOFFZELLEN DURCH RADIOGRAFTING

Title (fr)

PROCEDE D'ELABORATION DE MEMBRANES CONDUCTRICES DE PROTONS DE PILE A COMBUSTIBLE PAR RADIOGREFFAGE.

Publication

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Application

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- FR 0757875 A 20070926

Abstract (en)

[origin: WO2009040365A1] The invention relates to a method for making a proton-conducting membrane for a fuel cell, that successively comprises: the step of irradiating a polymer matrix; the step of grafting the polymer matrix thus irradiated by a radical reaction with a first compound, that comprises contacting the irradiated polymer matrix with said first compound, wherein said compound includes at least one group capable of forming a covalent bond by radical reaction with said matrix, and includes at least one reactive group capable of reacting with a group of a second compound containing at least one proton-conducting acid group for forming a covalent bond; and the step of contacting the matrix thus grafted with the second compound, whereby a reaction occurs between the reactive groups from the first compound and the appropriate groups of the second compound.

IPC 8 full level

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See references of WO 2009040365A1

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