

Title (en)
POLYMER MEMBRANE FOR FUEL CELLS AND METHOD FOR THE PRODUCTION THEREOF

Title (de)
POLYMERE BRENNSTOFFZELLEN-MEMBRAN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
MEMBRANE POLYMERE POUR PILES A COMBUSTIBLE ET PROCEDE DE PRODUCTION DE LADITE MEMBRANE

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Application
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Abstract (en)
[origin: WO03030289A2] The invention relates to the field of chemistry and to membranes, such as applied for example in direct methanol fuel cells. The aim of the present invention is to provide membranes having a substantially improved methanol retention capacity. Said aim is achieved by a polymer membrane for fuel cells, whereby the separating layer(s) comprises at least diblock- and/or multiblock-copolymers having the general segment structures A-(B-A)*k* and/or B-(A-B)*l* and/or (A-B)*m* with *k* \geq 1 and *l* \geq 1 and *m* \geq 1, whereby the block segment (A) comprises an oligomer segment, non-conducting to electrons and non-conducting to protons and the block segment (B) comprises an oligomer segment, conducting protons and non-conducting to electrons. Said aim is also achieved by a method, whereby the starting substances are reacted to produce the block segments (A) from at least one oligomer segment, non-conducting to electrons and non-conducting to protons, as well as the block segments (B) from at least one oligomer segment, conducting protons and non-conducting to electrons.

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