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A Method of Producing a Polytetrafluoroethylene Adhesive Polymer Membrane

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- TRL 4

PATENT/ GRANTED NUMBER

- My-153875-A

TECHNOLOGY OVERVIEW

The present invention relates to a method of producing a polymer electrolyte membrane, and characterized by the steps of: providing a homogenous mixture comprising an acrylate copolymer, an ionic salt, and a non-polar solvent; casting said homogenous mixture on a polytetrafluroethylene substrate to form a layer of membrane; drying said substrate containing the membrane at a first temperature to remove the non-polar solvent and to form an adhesive bond between said membrane and the polytetrafluroethylene substrate; cooling said substrate containing the membrane to ambient temperature; heat treating said substrate containing the membrane at a second temperature to produce the polymer…

electrolyte membrane to be removed from the polytetrafluroethylene substrate. The present invention also provides a polymer electrolyte membrane produced thereof.

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