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DeSimone

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[54] **METHOD OF MAKING FLUOROPOLYMERS**

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Related U.S. Application Data

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[51] **Int. Cl.⁶** **B05D 1/02**

[52] **U.S. Cl.** **427/422; 427/385.5**

[58] **Field of Search** **427/422, 385.5**

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[57] **ABSTRACT**

A process for making a fluoropolymer is disclosed. The process comprises solubilizing a fluoromonomer in solvent comprising a carbon dioxide fluid, and then polymerizing the fluoromonomer to produce a the fluoropolymer. A preferred solvent for carrying out the process is supercritical carbon dioxide; preferred fluoromonomers for carrying out the process are fluoroacrylate monomers such as 1,1-dihydroperfluorooctyl acrylate. The polymerization step is preferably carried out in the presence of an initiator such as azobisisobutyronitrile.

8 Claims, 1 Drawing Sheet