5512652

FLUORINATED ALDEHYDE CONTAINING POLYMERS

Farnham William Hockessin, DE, UNITED STATES assigned to E I Du Pont de Nemours and Company

Fluorinated aldehydes are made by reacting a fluorinated acyl chloride with a silicon hydride in the presence of palladium. Also disclosed are fluorinated ether aldehydes and their polymers, a process for making fluorinated aldehydes polymers using titanium or aluminum alkoxide catalysts, and a process for endcapping fluorinated polymers using perfluoroallyl fluorosulfate or fluorine.

5514301

COMPOSITIONS FOR DEWETTING OR DEGREASING SOLID SURFACES

Bil Martine; Boussaguet Jean-Charles; Desbiendras Daniel; Fouquay Stephane; Michaud Pascal Villeneuve D'Asq, FRANCE assigned to Elf Atochem S A

The subject of the invention is dewetting or degreasing compositions based on halogenated aliphatic solvents containing in solution at least one mono- or dialkyl phosphate of a fluorinated amine, at least one quaternary ammonium mono- or dialkylphosphate and optionally a quaternary ammonium chloride.

5514424

PROCESS FOR REDUCING THE FRICTION COEFFICIENT BETWEEN WATER AND SURFACES OF POLYMERIC MATERIALS AND RESULTING ARTICLE

Morra Marco; Occhiello Ernest; Gabrassi Fabio Asti, ITALY assigned to Enichem SpA

Process for reducing the friction coefficient between water, and, surfaces of fabricated bodies made from polymeric materials, and for increasing the water repellency of said surfaces, which process comprises treating the concerned surface with a corrosive solution, and coating it with a thin layer of fluorinated polymer.

5514461

VINYLIDENE FLUORIDE POROUS MEMBRANE AND METHOD OF PREPARING THE SAME

Meguro Kazuhiro; Mizuno Toshiya; Teramoto Yoshikiti; Sato Hiroshi Ryugasaki, JAPAN assigned to Kureha Chemical Industry Co Ltd

A polyvinylidene fluoride porous membrane has an asymmetrical structure, excellent mechanical strength such as tensile strength at break and elongation at break, and a desirable narrow range of pore diameter distribution. A method of preparing the porous membrane is also disclosed. The membrane comprises a vinylidene fluoride resin having an inherent viscosity from 1.3 to 15.0 (dl/g), and the membrane comprises pores which satisfy the following numerical expression (A): (*See Patent for Tabular Presentation*) PS wherein P1 is an average pore diameter (mum) in a surface which has a larger average pore diameter, and P2 is an average pore diameter (mum) in the other surface of the membrane.

5514493

PERFLUOROALKYLSULFONATES, SULFONIMIDES, AND SULFONYL METHIDES, AND ELECTROLYTES CONTAINING THEM

Waddell Jennifer E; Lamanna William M; Krause Larry; Moore George G I; Hamrock Steven J Burnsville, MN, UNITED STATES assigned to Minnesota Mining and Manufacturing Company

An electrolyte composition that includes a salt disposed in a matrix in which the salt has a formula selected from the group consisting of (*See Patent for Chemical Structure*) ZRf7Rf6N(CF2)nSO2X-M+ in which X- is -O-,-N-SO2Rf3, or (*See Patent for Chemical Structure*) Z is -CF2-, -O-, -NRf8-, or -SF4-; Rf1 and Rf2, independently, are -CF3, -CmF2m+I, or -(CF2)q-SO2-X-M+; Rf3, Rf4, and Rf5, independently, are -CF3, -Cmf2m+1, -(CF2)q-X-M+, (*See Patent for