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**5733835****COBALT CONTAINING CATALYST SYSTEM**

Castner Kenneth Floyd Uniontown, OH, UNITED STATES assigned to The Goodyear Tire & Rubber Company

It has been determined that 1,3-butadiene monomer can be polymerized into cis-1,4-polybutadiene rubber utilizing a cobalt-based catalyst system which is comprised of (a) an organocobalt compound, (b) a trialkylaluminum compound and (c) hexafluoro-2-propanol. The use of this catalyst system results in extremely fast rates of polymerization. The molecular weight of the cis-1,4-polybutadiene rubber made utilizing this cobalt-based catalyst system can be regulated by conducting the polymerization in the presence of 1,5-cyclooctadiene. This present invention more specifically discloses a catalyst system which is particularly useful for polymerizing 1,3-butadiene monomer into cis-1,4-polybutadiene, said catalyst system being comprised of (a) an organocobalt compound, (b) a trialkylaluminum compound and (c) hexafluoro-2-propanol. The subject invention further discloses a process for synthesizing cis-1,4-polybutadiene rubber which comprises polymerizing 1,3-butadiene in the presence of (a) an organocobalt compound, (b) a trialkylaluminum compound and (c) hexafluoro-2-propanol.

**5733939****FLUOROCARBONS AS ANTI-INFLAMMATORY AGENTS**

Fuhrman Bradley Phillip; Flaim Stephen F; Hernan Lynn Joanne; Nesti Frances Darey; Papo Michele Cecile; Steinhorn David Marc Buffalo, NY, UNITED STATES assigned to Alliance Pharmaceutical Corporation

A method for reducing the inflammatory response

in tissues of a patient, by contacting the tissue with an effective, inflammation-reducing amount of a liquid or gaseous fluorocarbon.

**5734073****HALOGENATION REACTIONS**

Chambers Richard Dickinson; Skinner Christopher John; Atherton Malcolm John; Moilliet John Stewart Durham, UNITED KINGDOM assigned to BNFL Fluorochemicals Ltd

PCT No. PCT/GB95/01738 Sec. 371 Date Apr. 18, 1996 Sec. 102(e) Date Apr. 18, 1996 PCT Filed Jul. 24, 1995 PCT Pub. No. WO96/03356 PCT Pub. Date Feb. 8, 1996. A method of halogenating an aromatic compound which comprises the steps of reacting an halogenating agent with the aromatic compound in the presence of fluorine and an acid, wherein the halogenating agent is at least one of an iodinating agent, a brominating agent and an chlorinating agent.

**5736012****PROCESS FOR THE PREPARATION OF A FLUORINATED ACID**

Thenappan Alagappan; Van Der Puy Michael Cheektowaga, NY, UNITED STATES assigned to AlliedSignal Inc

A process for the preparation of a fluorinated acid such as trifluoroacetic acid, including admixing an hydrofluorocarbon, such as 1,1,1-trifluoroethane, with chlorine, an oxidizing agent and an additive to prevent or minimize decomposition; and irradiating the reaction mixture with a light source having a wavelength ranging from 2000 #521 +0 to 14000 +521 .

**5736063****NON-AZEOTROPIC REFRIGERANT  
COMPOSITIONS CONTAINING CARBON  
DIOXIDE**

Richard Robert Gerard; Shankland Ian R; Singh Rajiv Ratna Cheektowaga, NY, UNITED STATES assigned to AlliedSignal Inc

The present invention provides refrigerant blends which are replacements for chlorodifluoromethane(HCFC-22). The present blends have refrigeration characteristics which are similar to HCFC-22. The blends comprise from about 10 to about 90 weight percent of a first component selected from the group consisting of 1,1,1-trifluoroethane, difluoromethane, propane, and mixtures thereof; from about 1 to about 50 weight percent of a second component selected from the group consisting of hydrofluorocarbon having 1 to 3 carbon atoms, fluorocarbon having 1 to 3 carbon atoms, inorganic compound, and mixtures thereof having a boiling point at atmospheric pressure in the range from about -90°C to less than -50°C; and from about 1 to about 50 weight percent of a third component which is hydrofluorocarbon having 1 to 3 carbon atoms, other than 1,1,1-trifluoroethane, having a boiling point at atmospheric pressure in the range from about -50°C to about -10°C The refrigerant compositions have a vapor pressure substantially equal to the vapor pressure of HCFC-22.

**5739070****PROCESS FOR REGENERATING A  
FLUORINATION CATALYST**

Ebmeyer Fran; Finzel Ralf; Siegemund Guml unter; Wanzke Wolfgang Hattersheim, GERMANY assigned to Solvay (Societe Anonyme)

Process for regenerating a fluorination catalyst The invention relates to a process for regenerating a fluorination catalyst containing chromium and magnesium after use in a fluorination reaction, in which the used catalyst is treated with a mixture comprising at least 10 mol % of HF, from 30 to 90 mol % of O<sub>2</sub> and from 0 to 60 mol % of inert gas.

**5739233****LOW MOLECULAR WEIGHT  
VINYLIDENE FLUORIDE COPOLYMERS  
CURABLE AT ROOM TEMPERATURE**

assigned to E I du Pont de Nemours and Company Low molecular weight copolymers of vinylidene fluoride with fluorinated comonomers having ester functionality are curable at low temperatures to produce elastomers useful as components of heat and corrosion resistant sealants and protective coatings.



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