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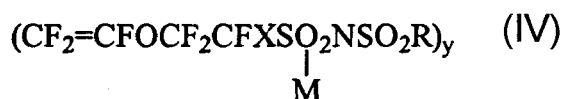
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(54) Title: METHOD FOR PREPARING FLUOROSULFONYL IMIDE MONOMER



(57) Abstract: Disclosed is a method for the preparation of
a fluorosulfonyl imide monomer of the structure represented
by formula (IV), wherein X is F or perfluoroalkyl having 1-4
carbons optionally substituted by ether oxygen, M is an alkali
or alkaline earth metal when y is respectively 1 or 2, R is aryl,
fluoro-aryl, or XCF₂- where X is H, halogen, fluorinated or

non-fluorinated linear or cyclic alkyl having 1-10 carbons, optionally substituted by one or more ether oxygens. Such monomers
are useful for forming ionomers useful in electrochemical applications such as batteries, fuel cells, electrolysis cells, ion exchange
membranes, sensors, electrochemical capacitors, strong acid catalysts, and modified electrodes.



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