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**NAKAZAWA et al.**(10) **Pub. No.: US 2024/0213508 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **FLUORINE-CONTAINING COMPOUND  
HAVING SULFONIC ACID GROUP AND  
POLYMER ELECTROLYTE FUEL CELL***C08G 2261/124* (2013.01); *C08G 2261/148*  
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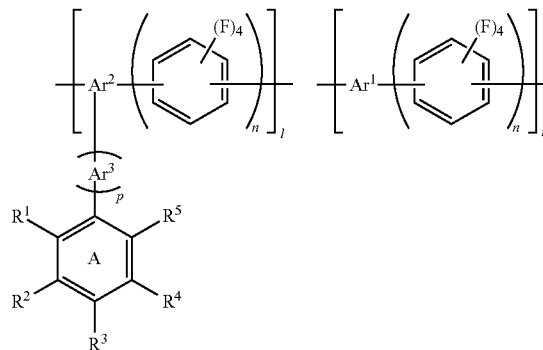
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**8/1004** (2013.01); **C08G 2261/122** (2013.01);(57) **ABSTRACT**

A compound that has good solubility in a polar solvent and when it is used as an electrolyte in a catalyst layer of a polymer electrolyte fuel cell, the polymer electrolyte fuel cell exhibits good power generation characteristics is disclosed. The compound has a structure represented by the following general formula (I)

(I)



which contains at least one sulfonic acid group.

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