

Title (en)  
FLUORINATED PHOSPHONIC SULFONIC ACIDS AND DERIVATIVES THEREOF

Publication  
**EP 0453484 A4 19911211 (EN)**

Application  
**EP 90902058 A 19900103**

Priority  
US 29039489 A 19890103

Abstract (en)  
[origin: WO9007513A1] The present invention provides compounds comprising one or more fluorine atoms, sulfo radicals and phosphono radicals, each such radical being bonded to the same or different carbon atom, with the proviso that at least one sulfo radical and at least one phosphono radical are bonded to such carbon atoms through the sulfur atom and the phosphorus atom, respectively. These compounds are preferably non-polymeric, i.e. they have a molecular weight of about 5000 or less. Such compounds are useful as electrolytes, e.g. in fuel cells.

IPC 1-7  
**C07F 9/38**; **C07F 9/40**; **C07C 309/65**; **C07C 313/12**; **C07C 309/16**

IPC 8 full level  
**C07F 9/38** (2006.01); **C07F 9/40** (2006.01); **H01M 8/08** (2006.01)

CPC (source: EP KR)  
**C07F 9/38** (2013.01 - KR); **C07F 9/3808** (2013.01 - EP); **C07F 9/4006** (2013.01 - EP); **C07F 9/4012** (2013.01 - EP)

Citation (search report)

- [A] INORGANIC CHEMISTRY, vol. 25, no. 18, 27th August 1986, pages 3128-3131, American Chemical Society; T. MAHMOOD et al.: "New perfluoroalkylphosphonic and bis(perfluoroalkyl)phosphinic acids and their precursors"
- See references of WO 9007513A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**WO 9007513 A1 19900712**; AU 4842190 A 19900801; CA 2045151 A1 19900704; EP 0453484 A1 19911030; EP 0453484 A4 19911211; JP H02184693 A 19900719; KR 900011782 A 19900802

DOCDB simple family (application)  
**US 9000055 W 19900103**; AU 4842190 A 19900103; CA 2045151 A 19900103; EP 90902058 A 19900103; JP 2246789 A 19890131; KR 890001050 A 19890131