

Title (en)  
METHOD FOR PURIFYING METHANIDE ELECTROLYTES (II)

Title (de)  
VERFAHREN ZUR AUFREINIGUNG VON METHANID-ELEKTROLYTEN (II)

Title (fr)  
PROCEDE DE PURIFICATION D'ELECTROLYTES (II) DE METHANIDE

Publication  
**EP 1173416 A1 20020123 (DE)**

Application  
**EP 00922632 A 20000413**

Priority

- DE 19919347 A 19990428
- EP 0003320 W 20000413

Abstract (en)  
[origin: DE19919347A1] The invention relates to a method for preparing organic methanide electrolytes of the formula (I):  $M_2[R_1-SO_2-(CF_2)_n-SO_2-R]$ , wherein R means  $C(SO_2RF)_2$ ,  $N(SO_2RF)$ , O and  $R_1$  means  $C(SO_2RF)_2$ ,  $N(SO_2RF)$  in a quality sufficient for the use in electrochemical cells in batteries. The method comprises the following steps: (i) reacting a methanide of the formula (I) with concentrated sulphuric acid and fractionally rectifying the obtained free acids of said methanide. (ii) Reacting the product of the formula (I), whereby said product is obtained in (i), with  $M=H$  with phosphorus pentaoxide above the melting point followed by subsequent fractioned rectification. (iii) Receiving the product from (ii) in an aprotic, organic solvent and reacting with metallic Li, Na, K, Rb, Cs, Mg, Ca, Sr or Ba or the chlorides or hydrides thereof to form the corresponding metal methanides of the formula (I) and optionally removing excess reagent, whereby lithium alkyl can be used for  $M=Li$ .

IPC 1-7  
**C07C 315/06**; **C07C 317/04**; **H01M 6/16**; **H01M 10/40**

IPC 8 full level  
**C07C 315/06** (2006.01); **C07C 317/04** (2006.01); **C07F 1/00** (2006.01); **C07F 3/00** (2006.01); **C07F 3/02** (2006.01); **H01M 6/16** (2006.01); **H01M 10/052** (2010.01); **H01M 10/0568** (2010.01); **H01M 10/36** (2010.01)

CPC (source: EP KR)  
**C07F 1/00** (2013.01 - EP); **C07F 3/00** (2013.01 - EP); **C07F 3/02** (2013.01 - EP); **H01M 10/052** (2013.01 - EP); **H01M 10/0525** (2013.01 - KR); **H01M 10/0568** (2013.01 - EP); **H01M 10/0569** (2013.01 - KR); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**DE 19919347 A1 20001102**; AU 4295400 A 20001117; BR 0010024 A 20020115; CA 2371613 A1 20001109; CN 1350518 A 20020522; EP 1173416 A1 20020123; JP 2002543178 A 20021217; KR 20020020697 A 20020315; RU 2001130168 A 20040227; WO 0066547 A1 20001109

DOCDB simple family (application)  
**DE 19919347 A 19990428**; AU 4295400 A 20000413; BR 0010024 A 20000413; CA 2371613 A 20000413; CN 00806823 A 20000413; EP 0003320 W 20000413; EP 00922632 A 20000413; JP 2000615378 A 20000413; KR 20017013654 A 20011025; RU 2001130168 A 20000413