

Title (en)

ELECTROCHEMICAL FLUORINATION OF ALKANE SUBSTRATE

Title (de)

ELEKTROCHEMISCHE FLUORIERUNG VON ALKAN-VERBINDUNGEN

Title (fr)

FLUORATION ELECTROCHIMIQUE D'UN SUBSTRAT ALCANE

Publication

**EP 1080251 A1 20010307 (EN)**

Application

**EP 99914240 A 19990329**

Priority

- US 9906789 W 19990329
- US 7483098 A 19980508

Abstract (en)

[origin: WO9958745A1] Described is a process for the electrochemical fluorination of an alkane substrate, the process comprising the steps of: providing an alkane substrate comprising at least one carbon-bonded hydrogen; preparing a reaction solution comprising the alkane substrate and hydrogen fluoride; passing electric current through the reaction solution sufficient to cause replacement of one or more hydrogens of the alkane substrate with fluorine, the electric current being interrupted through a current cycle defined by current levels comprising an elevated current and a reduced current; wherein the current varies in such a manner that the resistance of the cell operated with interrupted current is lower than the resistance of the cell operated with non-interrupted current.

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IPC 8 full level

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