ASYMPTREM ELECTROPHILIC FLUORINATION USING AN ANIONIC CHIRAL PHASE-TRANSFER CATALYST

Tech ID: 23405 / UC Case 2012-047-0

PATENT STATUS

<table>
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<tr>
<th>Country</th>
<th>Type</th>
<th>Number</th>
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<td>United States Of America</td>
<td>Issued Patent</td>
<td>9,981,977</td>
<td>05/29/2018</td>
<td>2012-047</td>
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BRIEF DESCRIPTION

The invention is a novel family of chiral catalysts for electrophilic addition reactions especially for fluorination. The catalysts are salts including a chiral anionic component and a cationic component. They are chiral, non-racemic compounds that function as phase transfer catalysts in certain asymmetric synthetic organic transformations.

SUGGESTED USES

The ability to selectively transform a prochiral center in a compound to an enantiomerically enriched or enantiomerically pure chiral center has broad application, especially in the agricultural, pharmaceutical and polymer industries.

ADVANTAGES

Transform a prochiral center in a compound to an enantiomerically enriched or enantiomerically pure chiral center.

RELATED MATERIALS

OTHER INFORMATION

Non-exclusively licensed.

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

▶ Au(III) Complexes For [18F] Trifluoromethylation