

Title (en)

RELEASABLE CORROSION INHIBITOR COMPOSITIONS

Title (de)

FREISETZBARE KORROSIONSINHIBITOREN ENTHALTENDE ZUSAMMENSETZUNGEN

Title (fr)

COMPOSITIONS LIBERABLES EMPECHANT LA CORROSION

Publication

**EP 1880041 A1 20080123 (EN)**

Application

**EP 05738673 A 20050426**

Priority

US 2005014303 W 20050426

Abstract (en)

[origin: WO2006115492A1] A new class of releasable corrosion inhibiting materials for protective coatings, methods of making the same, methods of using the same, and coatings containing the same are provided. The materials comprise one or more corrosion inhibitors that are chemically anchored to the surface of a particle having an aluminum oxyhydroxide surface through a carboxylate bond. The carboxylate/aluminum-oxyhydroxide-surface bond breaks under corrosion-causing conditions (for example the presence of high levels of hydroxide ions generated by the cathodic oxygen reduction reaction on metals such as iron and aluminum) thereby allowing the corrosion inhibitors to detach from the particle surface when corrosion is present.

IPC 8 full level

**C01F 7/02** (2006.01); **C23F 11/00** (2006.01)

CPC (source: EP)

**C09D 5/082** (2013.01); **C23F 11/08** (2013.01)

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DOCDB simple family (publication)

**WO 2006115492 A1 20061102**; CA 2606407 A1 20061102; EP 1880041 A1 20080123; EP 1880041 A4 20100609

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