

Title (en)
ORGANOSULFUR OXIDATION PROCESS

Title (de)
OXYDIERUNGSVERFAHREN FÜR ORGANISCHE SCHWEFELVERBINDUNGEN.

Title (fr)
PROCEDE D'OXYDATION D'ORGANO-SULFURE

Publication
EP 1601749 A1 20051207 (EN)

Application
EP 03816406 A 20031219

Priority
• US 0341552 W 20031219
• US 38784903 A 20030313

Abstract (en)
[origin: US2004178121A1] This invention is a method of oxidizing organosulfur impurities found in fuel streams. The method comprises reacting the organosulfur impurities with an organic hydroperoxide in the presence of a titanium-containing catalyst. The titanium-containing catalyst is obtained by impregnating a siliceous solid with a titanium halide in a hydrocarbon solvent, or a vapor stream of titanium tetrachloride, followed by calcination. The resulting sulfones are more readily removed from the fuel stream than the non-oxidized organosulfur impurities.

IPC 1-7
C10G 27/12

IPC 8 full level
C10G 27/12 (2006.01); **C10G 29/20** (2006.01)

CPC (source: EP KR US)
C10G 27/12 (2013.01 - EP KR US)

Citation (search report)
See references of WO 2004083345A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2004178121 A1 20040916; AT E337386 T1 20060915; AU 2003300427 A1 20041011; BR 0318282 A 20060530; CA 2513863 A1 20040930; CN 100339462 C 20070926; CN 1753975 A 20060329; DE 60307902 D1 20061005; DE 60307902 T2 20070222; EP 1601749 A1 20051207; EP 1601749 B1 20060823; ES 2266923 T3 20070301; JP 2006514146 A 20060427; JP 4209394 B2 20090114; KR 20050115911 A 20051208; WO 2004083345 A1 20040930

DOCDB simple family (application)
US 38784903 A 20030313; AT 03816406 T 20031219; AU 2003300427 A 20031219; BR 0318282 A 20031219; CA 2513863 A 20031219; CN 200380109939 A 20031219; DE 60307902 T 20031219; EP 03816406 A 20031219; ES 03816406 T 20031219; JP 2004569696 A 20031219; KR 20057017171 A 20050913; US 0341552 W 20031219