

Title (en)

Process for the catalytic removal of metal compounds from heavy oils

Title (de)

Verfahren zum katalytischem Entfernen von Metallverbindungen aus Schwerölen

Title (fr)

Procédé d'élimination de composés métalliques à partir d'huiles lourdes

Publication

**EP 0978552 A3 20000405 (DE)**

Application

**EP 99114579 A 19990724**

Priority

DE 19835479 A 19980806

Abstract (en)

[origin: EP0978552A2] Metal compounds are removed from heavy oils using a catalyst containing a group IVB metal and a group IA metal at temperatures of 300-550oC and at a pressure of 100-300 atm.

IPC 1-7

**C10G 29/06**; **C10G 45/26**

IPC 8 full level

**C10G 29/06** (2006.01); **C10G 45/26** (2006.01)

CPC (source: EP US)

**C10G 29/06** (2013.01 - EP US); **C10G 45/26** (2013.01 - EP US)

Citation (search report)

- [Y] US 4381993 A 19830503 - NEVITT THOMAS D
- [DY] WO 8908138 A1 19890908 - ANDERSEN KJELD [DE]
- [DA] US 3733259 A 19730515 - WILSON R, et al
- [DA] US 4446012 A 19840501 - MURTHY ANDIAPPAN K S [US], et al

Cited by

WO2009073442A3; US9295957B2; US9656230B2; US10010839B2

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)

**EP 0978552 A2 20000209**; **EP 0978552 A3 20000405**; **EP 0978552 B1 20040901**; DE 19835479 A1 20000210; DE 19835479 B4 20070606; DE 59910380 D1 20041007; US 6325921 B1 20011204

DOCDB simple family (application)

**EP 99114579 A 19990724**; DE 19835479 A 19980806; DE 59910380 T 19990724; US 36925099 A 19990805