

Title (en)
PUMP INSERT

Title (de)
PUMPENEINSATZ

Title (fr)
ÉLÉMENT DE POMPE

Publication
EP 2201250 A1 20100630 (DE)

Application
EP 08801190 A 20080819

Priority
• DE 2008001367 W 20080819
• DE 102007044999 A 20070919

Abstract (en)
[origin: WO2009036723A1] The invention relates to a pump insert of a vane-type pump having no dedicated housing, said insert being inserted in a gear housing.

IPC 8 full level
F04C 2/344 (2006.01)

CPC (source: EP US)
F04C 2/344 (2013.01 - EP US); **F04C 2240/30** (2013.01 - EP US)

Citation (search report)
See references of WO 2009036723A1

Cited by
DE102015210098A1; DE102012020705A1; DE102012020705B4

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009036723 A1 20090326; AT E499531 T1 20110315; DE 112008002391 A5 20100610; DE 502008002699 D1 20110407; EP 2201250 A1 20100630; EP 2201250 B1 20110223; ES 2359879 T3 20110527; US 2010239450 A1 20100923; US 8425206 B2 20130423

DOCDB simple family (application)
DE 2008001367 W 20080819; AT 08801190 T 20080819; DE 112008002391 T 20080819; DE 502008002699 T 20080819; EP 08801190 A 20080819; ES 08801190 T 20080819; US 67895808 A 20080819