

Title (en)  
Oil separator for air conditioner

Title (de)  
Ölabscheider für eine Klimaanlage

Title (fr)  
Séparateur d'huile pour système de climatisation

Publication  
**EP 1731856 A2 20061213 (EN)**

Application  
**EP 06011305 A 20060531**

Priority  
• KR 20050049883 A 20050610  
• KR 20050052418 A 20050617

Abstract (en)  
An oil separator for an air conditioner includes a cylindrical housing (1); a refrigerant discharge pipe communicating with the housing for discharging refrigerant gas; an oil discharge pipe (4) for circulating oil collected in the lower portion of the housing; and a refrigerant inflow pipe (3) having one end facing the inner surface of a side wall of the housing in the tangential direction for supplying a refrigerant-oil mixture to the inside of the housing. An insertion hole (32), into which the refrigerant inflow pipe (3) is inserted, is easily formed, the efficiency of the oil separator is increased, and noise and vibration generated from the oil separator is reduced.

IPC 8 full level  
**F25B 43/02** (2006.01)

CPC (source: EP US)  
**F25B 43/02** (2013.01 - EP US); **F25B 2400/02** (2013.01 - EP US); **F25B 2500/01** (2013.01 - EP US); **F25B 2500/13** (2013.01 - EP US)

Cited by  
US2020362862A1; US11713760B2; US10605504B2; WO2015082867A1

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

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1731856 A2 20061213**; US 2006280622 A1 20061214; US 2009064708 A1 20090312

DOCDB simple family (application)  
**EP 06011305 A 20060531**; US 28933008 A 20081024; US 43676406 A 20060519