

Title (en)

Compressor oil recovering apparatus and multi-unit air conditioner equipped with the same

Title (de)

Vorrichtung zur Ölrückgewinnung und damit ausgestattete, aus mehreren Einheiten zusammengesetzte Klimaanlage

Title (fr)

Système de récupération d'huile et climatiseur à unités multiples associé à ce système

Publication

EP 1659351 A2 20060524 (EN)

Application

EP 05024655 A 20051111

Priority

KR 20040094996 A 20041119

Abstract (en)

A compressor oil recovering apparatus is disclosed which is capable of re-supplying, to a compressor (83,84), oil separated in an oil separator (85,86) after emerging from the compressor. The compressor oil recovering apparatus includes an oil separator adapted to separate oil from a refrigerant discharged from a compressor, an oil recovering port (830,840) provided at the compressor, and an oil recovering tube (163,164) having one end connected to the oil separator, and the other end connected to the oil recovering port. A non-uniform oil distribution is prevented by temperature sensors (153,154) arranged in the compressors and a uniform distribution tube (150).

IPC 8 full level

F25B 31/00 (2006.01)

CPC (source: EP KR US)

F24F 1/06 (2013.01 - KR); **F25B 13/00** (2013.01 - EP US); **F25B 31/004** (2013.01 - EP US); **F25B 43/00** (2013.01 - KR); **F25B 43/02** (2013.01 - EP US); **F25B 2313/023** (2013.01 - EP US); **F25B 2313/025** (2013.01 - EP US); **F25B 2400/075** (2013.01 - EP US); **F25B 2700/2105** (2013.01 - EP US); **F25B 2700/21155** (2013.01 - EP US)

Cited by

US9726408B2; EP2525170A1; EP2730862A1; EP2889556A1; US2015184910A1; CN104748443A; US9500396B2; WO2009149803A3

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1659351 A2 20060524; **EP 1659351 A3 20060726**; **EP 1659351 B1 20090304**; CN 1776228 A 20060524; DE 602005013044 D1 20090416; KR 20060055830 A 20060524; US 2006107686 A1 20060525

DOCDB simple family (application)

EP 05024655 A 20051111; CN 200510125090 A 20051118; DE 602005013044 T 20051111; KR 20040094996 A 20041119; US 28041505 A 20051117