

Title (en)

Method for lubricating screw expanders and system for controlling lubrication

Title (de)

Verfahren zur Schmierung von Schraubenexpandern und System zur Kontrolle der Schmierung

Title (fr)

Procédé de lubrification d'extenseur de vis et système de contrôle de la lubrification

Publication

EP 2161417 A1 20100310 (EN)

Application

EP 09166581 A 20090728

Priority

US 18742608 A 20080807

Abstract (en)

A method for lubricating a screw expander (16) includes condensing a mixture of working fluid and lubricant fed from the screw expander (16), through a condenser (18). At least a portion of the mixture of working fluid and lubricant fed from the condenser (18) is pressurized from a first pressure to a second pressure through a pump (20). The method also includes separating the lubricant from the condensed working fluid of the at least portion of the mixture via a separator (22) and feeding the lubricant to the screw expander (16); or separating the lubricant from the working fluid of the at least portion of the mixture via an evaporator (14) and feeding the lubricant to the screw expander (16); or feeding the at least portion of the mixture of condensed working fluid and lubricant to the screw expander (16); or combinations thereof.

IPC 8 full level

F01K 25/06 (2006.01); **F01K 21/00** (2006.01); **F01K 25/04** (2006.01)

CPC (source: EP US)

F01K 21/005 (2013.01 - EP US); **F01K 25/04** (2013.01 - EP US); **F01K 25/06** (2013.01 - EP US)

Citation (applicant)

- GB 2427002 A 20061213 - UNIV CITY [GB]
- US 4008573 A 19770222 - PETRILLO VINCENT CARMEN
- GB 2436129 A 20070919 - UNIV CITY [GB]

Citation (search report)

- [X] GB 2427002 A 20061213 - UNIV CITY [GB]
- [X] US 4008573 A 19770222 - PETRILLO VINCENT CARMEN
- [XA] GB 2436129 A 20070919 - UNIV CITY [GB]
- [A] DE 102006060435 A1 20070726 - DENSO CORP [JP], et al
- [AP] DE 102007041944 B3 20090219 - MOTOREN UND KRAFTANLAGEN MBH G [DE]

Cited by

EP3032048A1; CN113423932A; AU2011260641B2; US9382816B2; WO2023148602A1; WO2011151029A3; WO2018068883A1; DE102016219633B4; US11698026B2; DE102016219633A1; EP3916253A1; US10830046B2; WO2017059884A1; WO2014117156A1; WO2020161000A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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