

Title (en)

STABILIZED HEAT TRANSFER COMPOSITIONS, METHODS AND SYSTEMS

Title (de)

STABILISIERTE WÄRMETRANSFERZUSAMMENSETZUNGEN, VERFAHREN UND SYSTEME

Title (fr)

COMPOSITIONS DE TRANSFERT THERMIQUE STABILISÉS, ET PROCÉDÉS ET SYSTÈMES ASSOCIÉS

Publication

EP 3906288 A1 20211110 (EN)

Application

EP 19907041 A 20191230

Priority

- US 201862786812 P 20181231
- US 2019068934 W 20191230

Abstract (en)

[origin: WO2020142427A1] The present invention relates to heat transfer compositions comprising refrigerant, lubricant and stabilizer, wherein the refrigerant comprises about 49% by weight difluoromethane (HFC-32), about 11.5% by weight pentafluoroethane (HFC-125), and about 39.5% by weight trifluoriodomethane (CF₃I), and wherein said lubricant comprises polyol ester (POE) lubricant and/or polyvinyl ether (PVE) lubricant, and wherein said stabilizer comprises an alkylated naphthalene and optionally but preferably an acid depleting moiety.

IPC 8 full level

C09K 5/04 (2006.01)

CPC (source: EP KR)

C09K 5/044 (2013.01 - KR); **C09K 5/045** (2013.01 - EP); **C10M 171/008** (2013.01 - EP); **C09K 2205/104** (2013.01 - KR); **C09K 2205/11** (2013.01 - KR); **C09K 2205/122** (2013.01 - EP); **C09K 2205/128** (2013.01 - KR); **C10M 2203/06** (2013.01 - EP); **C10M 2207/026** (2013.01 - EP); **C10M 2207/042** (2013.01 - EP); **C10M 2207/2835** (2013.01 - EP); **C10M 2209/043** (2013.01 - EP); **C10M 2211/0225** (2013.01 - EP); **C10N 2020/02** (2013.01 - EP); **C10N 2020/097** (2020.05 - EP); **C10N 2020/101** (2020.05 - EP); **C10N 2030/02** (2013.01 - EP); **C10N 2040/30** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020142427 A1 20200709; CA 3125191 A1 20200709; CN 113330092 A 20210831; CN 113330092 B 20240409; EP 3906288 A1 20211110; EP 3906288 A4 20220928; JP 2022516875 A 20220303; JP 7446313 B2 20240308; KR 20210099182 A 20210811; MX 2021007919 A 20210910

DOCDB simple family (application)

US 2019068934 W 20191230; CA 3125191 A 20191230; CN 201980090050 A 20191230; EP 19907041 A 20191230; JP 2021538101 A 20191230; KR 20217024310 A 20191230; MX 2021007919 A 20191230