Title (en)
METHOD FOR IMPROVING NITRITE SALT COMPOSITIONS USED AS HEAT TRANSFER MEDIUM OR HEAT STORAGE MEDIUM

Title (de)
VERFAHREN ZUR VERBESSERUNG VON NITRITSALZZUSAMMENSETZUNGEN BEI DEREN VERWENDUNG ALS WÄRMETRÄGERMEDIUM ODER WÄRMESPEICHERMEDIUM

Title (fr)
PROCÉDÉ D'AMÉLIORATION DE COMPOSITIONS DE SELS DE NITRATES LORS DE LEUR UTILISATION COMME MILIEU CALOPORTEUR OU ACCUMULATEUR DE CHALEUR

Publication
EP 2885368 A1 20150624 (DE)

Application
EP 13745849 A 20130807

Priority
• EP 12180836 A 20120817
• EP 2013066561 W 20130807
• EP 13745849 A 20130807

Abstract (en)
[origin: WO2014026892A1] Disclosed is a method for maintaining or extending the long-term operating temperature range of a heat transfer medium and/or heat storage medium containing a nitrite salt composition that contains, as essential components, an alkali metal nitrate or an alkaline earth metal nitrate or a mixture of alkali metal nitrate and alkaline earth metal nitrate, as well as an alkali metal nitrite and/or an alkaline earth metal nitrite. Said method is characterized in that the entire nitrite salt composition or a portion thereof is brought in contact with an additive composed of nitrogen and/or rare gases, each of which contains 0 to 20 vol.% of elemental oxygen relative to the total amount of the additive, in combination with nitrogen oxides and/or nitrogen oxide-generating compounds.

IPC 8 full level
C09K 5/12 (2006.01); **F24J 2/46** (2006.01)

CPC (source: CN EP)
C09K 5/12 (2013.01 - CN EP); **F24S 80/20** (2018.04 - CN EP); F28D 2020/0047 (2013.01 - CN EP); Y02E 10/40 (2013.01 - CN EP)

Citation (search report)
See references of WO 2014026892A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2014026892 A1 20140220; AU 2013304224 A1 20150305; CL 2015000378 A1 20150504; CN 104583357 A 20150429; EP 2885368 A1 20150624; IL 236976 A0 20150331; MA 20150382 A1 20151030; ZA 201501765 B 20161221

DOCDB simple family (application)
EP 2013066561 W 20130807; AU 2013304224 A 20130807; CL 2015000378 A 20150217; CN 201380043423 A 20130807; EP 13745849 A 20130807; IL 23697615 A 20150129; MA 37926 A 20150312; ZA 201501765 A 20150316