

Title (en)

PREHEATING SYSTEM FOR PREHEATING LARGE DIESEL ENGINES

Title (de)

VORWÄRMANLAGE ZUM VORWÄRMEN GROSSER DIESELMOTOREN

Title (fr)

SYSTÈME DE PRÉCHAUFFAGE DESTINÉ AU PRÉCHAUFFAGE DE GROS MOTEURS DIESEL

Publication

**EP 2567083 B1 20141001 (DE)**

Application

**EP 11717999 A 20110427**

Priority

- DE 102010019664 A 20100503
- EP 2011056597 W 20110427

Abstract (en)

[origin: WO2011138194A2] In order to provide a preheating system (1) for heating a diesel engine, which comprises a high temperature circuit (8) and a low temperature circuit (9), said preheating system having a circulating pump and a preheating unit (2) for circulating and heating a heat exchange fluid, wherein an inlet (3), in which an inlet branch (5) is disposed for connecting the high temperature circuit (8) and low temperature circuit (9), and a return (4), in which an return branch (6) is disposed for connection the high temperature circuit (9) and the low temperature circuit (9), are provided, by means of which preheating system preheating losses can be prevented as much as possible and the preheating process is accelerated, the feed branch (5) and/or return branch (6) is/are implemented by one thermostat valve (18) each, wherein each thermostat valve (18) enables circulating of the heat exchange fluid either in the high temperature circuit (8) or the low temperature circuit (9) as a function of a changeover temperature.

IPC 8 full level

**F01P 7/16** (2006.01); **F02N 19/10** (2010.01)

CPC (source: EP)

**F01P 7/165** (2013.01); **F02N 19/10** (2013.01); **F01P 2037/02** (2013.01); **F01P 2060/18** (2013.01)

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

DOCDB simple family (publication)

**DE 102010019664 A1 20111103**; EP 2567083 A2 20130313; EP 2567083 B1 20141001; PL 2567083 T3 20150331; WO 2011138194 A2 20111110; WO 2011138194 A3 20111229

DOCDB simple family (application)

**DE 102010019664 A 20100503**; EP 11717999 A 20110427; EP 2011056597 W 20110427; PL 11717999 T 20110427