

Title (en)

METHOD FOR INJECTING A FUEL IN A LARGE DIESEL ENGINE, LARGE DIESEL ENGINE AND INJECTION DEVICE

Title (de)

VERFAHREN ZUM EINSPRITZEN EINES KRAFTSTOFFS IN EINEM GROSSEN DIESELMOTOR, GROSSER DIESELMOTOR UND EINSPRITZVORRICHTUNG

Title (fr)

PROCÉDÉ POUR INJECTER UN CARBURANT DANS UN MOTEUR DIESEL DE GRANDE DIMENSION, GRAND MOTEUR DIESEL ET DISPOSITIF D'INJECTION

Publication

EP 3181889 A1 20170621 (EN)

Application

EP 15200190 A 20151215

Priority

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Abstract (en)

A method is proposed for injecting a fuel in a large diesel engine, having at least one cylinder (3) with a combustion chamber (32) for the combustion of the fuel and with a piston (4) for reciprocating movement between a top dead center position and a bottom dead center position, and an injection device (7) for the injection of the fuel into the combustion chamber (32) of the cylinder, wherein the combustion chamber (32) is containing scavenging air under a compression pressure (PC), said method comprising the step of providing the fuel to the injection device (7) in a liquid phase under a fuel pressure (PF), wherein a fuel temperature (TF) is determined such that the fuel converts from the liquid phase to a gaseous phase when the fuel expands from the fuel pressure (PF) to the compression pressure (PC), the fuel is heated to the fuel temperature (TF) and the fuel is injected by the injection device (7) into the combustion chamber (32) of the cylinder (3). In addition, a large diesel engine, especially a large two-stroke diesel engine, and an injection device (7) are proposed.

IPC 8 full level

F02M 53/02 (2006.01); **F02B 75/02** (2006.01); **F02M 53/06** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)

F02M 53/02 (2013.01); **F02M 53/06** (2013.01); **F02B 2075/025** (2013.01)

Citation (search report)

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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

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