

Title (en)
PROPULSION SYSTEM, METHOD FOR REDUCING NOX, SHIP COMPRISING A PROPULSION SYSTEM AND CONTROL SYSTEM FOR CONTROLLING THE INJECTION OF A REDUCING AGENT

Title (de)
ANTRIEBSSYSTEM, VERFAHREN ZUR NOX-REDUKTION, SCHIFF MIT EINEM ANTRIEBSSYSTEM UND STEUERUNGSSYSTEM ZUR STEUERUNG DER EINSPRITZUNG EINES REDUKTIONSMITTELS

Title (fr)
SYSTÈME DE PROPULSION, PROCÉDÉ DE RÉDUCTION DE NOX, NAVIRE COMPRENANT UN SYSTÈME DE PROPULSION ET SYSTÈME DE COMMANDE PERMETTANT DE COMMANDER L'INJECTION D'UN AGENT DE RÉDUCTION

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Application
EP 17151927 A 20170118

Priority
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Abstract (en)
Propulsion system comprises a two stroke internal combustion engine, in particular a diesel engine, comprising at least two cylinders, each of them comprising a piston, said piston being arranged in a crosshead configuration. Each of the cylinders has an outlet, said outlets being connected to an exhaust gas receiver by connection means, in particular by pipes, providing a connection between each outlet and the exhaust gas receiver. The system comprises a SCR-reactor, which is arranged in or downstream of the exhaust gas receiver and a reservoir comprising a reducing agent, wherein said reducing agent is injectable into the connection means by means of at least two nozzles, preferably one nozzle per connection means. The nozzles are connected to each other by a common rail, wherein between reservoir and nozzles there is provided at least one nozzle valve.

IPC 8 full level
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Citation (applicant)
• DE 19745067 A1 19990415 - MAN B & W DIESEL GMBH [DK]
• EP 2673484 B1 20150826 - WAERTSILAE FINLAND OY [FI]

Citation (search report)
• [Y] EP 2527611 A1 20121128 - WAERTSILAE NSD SCHWEIZ AG [CH]
• [YD] EP 2673484 B1 20150826 - WAERTSILAE FINLAND OY [FI]
• [A] WO 2014060313 A1 20140424 - BOSCH EMISSION SYSTEMS GMBH & CO KG [DE]
• [IA] DE 19745068 C1 19990114 - MAN B & W DIESEL GMBH [DK]
• [XYI] WO 2016162081 A1 20161013 - VOLVO TRUCK CORP [SE]
• [IY] WO 2015023477 A1 20150219 - CATERPILLAR INC [US]
• [A] DE 102010034707 A1 20120223 - EMITEC EMISSIONSTECHNOLOGIE [DE]
• [XI] US 2011030348 A1 20110210 - CRAWFORD KYLE E [US], et al
• [X] DE 102014209960 A1 20141218 - FORD GLOBAL TECH LLC [US]
• [X] US 2010050757 A1 20100304 - LIU YI [US], et al
• [X] WO 2015056004 A1 20150423 - JOHNSON MATTHEY PLC [GB]

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