

Title (en)

A LUBRICATION SYSTEM FOR SPOT LUBRICATION OF WORKING CYLINDERS IN LARGE PISTON MACHINES, PRIMARILY NAVAL DIESEL MOTORS

Title (de)

SCHMIERUNGSANLAGE FÜR PUNKTSCHMIERUNG DER ARBEITSZYLINDER IN GROSSKOLBENMASCHINEN, INSBESONDERE SCHIFFDIESELMOTOREN

Title (fr)

SYSTEME POUR LA LUBRIFICATION DES POINTS DE GRAISSAGE DES CYLINDRES DE TRAVAIL DANS DES MACHINES A PISTONS DE GRANDE TAILLE, PRINCIPALEMENT DES MOTEURS DIESEL DE NAVIRES

Publication

EP 0678152 B1 19970813 (EN)

Application

EP 92910956 A 19920522

Priority

- DK 9200165 W 19920522
- DK 98391 A 19910524

Abstract (en)

[origin: WO9220909A1] It has been customary to supply oil to the oiling points (4) of large diesel motor cylinders (2) through long pipes from so-called central lubrication devices comprising adjustable piston pumps driven in synchronism with the motor revolutions. It has already been recognized that there are certain problems with respect to an accurate oil dosage due to spring actions in the long pipes, and it has been suggested, without practical success, to use time controlled dosing valves instead, mounted near the respective oiling points (4), whereby the spring problem is minimized. With the present invention further improvements are achieved by using instead of the near-mounted valves respective automatically adjustable, volumetric metering and dosing units (8), which, between the oiling operations, are fillable by any required volume of oil, which, e.g. by the action of the supply pressure of the oil, can be dosed out to one or more oiling points with just the required volume, practically independent of occurring pressure changes in the supply system (18).

IPC 1-7

F01M 1/16

IPC 8 full level

F01M 1/08 (2006.01); **F01M 1/16** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

F01M 1/16 (2013.01); **F01M 2001/083** (2013.01); **F02B 3/06** (2013.01)

Cited by

CN103038465A; CN109690038A; US10627047B2

Designated contracting state (EPC)

CH DE DK ES FR IT LI

DOCDB simple family (publication)

WO 9220909 A1 19921126; DE 69221642 D1 19970918; DE 69221642 T2 19980312; DK 0678152 T3 19980330; DK 98391 D0 19910524; EP 0678152 A1 19951025; EP 0678152 B1 19970813; ES 2106869 T3 19971116; JP 3485319 B2 20040113; JP H06510349 A 19941117; KR 100251573 B1 20000415; PL 171160 B1 19970328

DOCDB simple family (application)

DK 9200165 W 19920522; DE 69221642 T 19920522; DK 92910956 T 19920522; DK 98391 A 19910524; EP 92910956 A 19920522; ES 92910956 T 19920522; JP 50977892 A 19920522; KR 930703570 A 19931123; PL 30142092 A 19920522