Title (en)

Device for thermal coating of cylinder interiors for crankcases

Title (de)

Vorrichtung für das thermische Beschichten von Zylinderinnenflächen bei Kurbelgehäusen

Title (fr)

Dispositif de revêtement thermique de surfaces intérieures de cylindres dans des carters

Publication

EP 2455510 B1 20161109 (DE)

Application

EP 11189585 A 20111117

Prioritv

DE 102010060652 A 20101118

Abstract (en)

[origin: EP2455510A2] The device for thermal coating of cylinder interiors (10) for crankcases (12), comprises a workpiece support (16) adapted on the crankcase, coating tools (39) insertable in the cylinder interiors, a vacuum source connecting a suction device (28) with the cylinder interiors, and a suction opening (30), which surrounds a tool shaft (38) carrying the coating tools. The suction device is arranged to the front side of the cylinder interiors. The tool shaft is led through the suction device, is rotatably placed and is sealed via a rotary seal over the suction device. The device for thermal coating of cylinder interiors, a vacuum source connecting a suction device is arranged to the crankcase, coating tools (39) insertable in the cylinder interiors, a vacuum source connecting a suction device (28) with the cylinder interiors, and a suction opening (30), which surrounds a tool shaft (38) carrying the coating tools. The suction device (28) with the cylinder interiors. The tool shaft is led through the suction device, a suction device is arranged to the front side of the cylinder interiors, a vacuum source connecting a suction device (28) with the cylinder interiors, and a suction opening (30), which surrounds a tool shaft (38) carrying the coating tools. The suction device (28) with the cylinder interiors. The tool shaft is led through the suction device, is rotatably placed, and is sealed via a rotary seal over the suction device. The part of the suction device is a ring, which surrounds the extraction opening and slopes downwards to the crankcase turning away for the suction opening. The suction device is intended as an integral part of the workpiece support, and has suction holes, of which each suction hole is arranged in one of the cylinders of the crankcase. The suction hole is located at the free end of a tubular centre piece in the crankcase. The outer contour of the centre piece is adapted on the interior contours of the crankcase. The workpiece support is rotatable between a first and a se

IPC 8 full level

C23C 4/12 (2006.01); B05B 7/16 (2006.01)

CPC (source: EP)

B05B 13/0636 (2013.01); **B05B 14/00** (2018.01); **C23C 4/12** (2013.01); **C23C 4/137** (2016.01); **C23C 4/16** (2013.01); **B05B 7/20** (2013.01); **B05B 7/20** (2013.01); **B05B 13/069** (2013.01)

Cited by

DE102017127581A1; DE102019104017A1; CN109367232A; FR2986805A1; DE102019124664A1; DE102017213359A1; DE102017213360A1; US10286417B2; WO2016015922A1; DE102017127581B4; EP3048182B1

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)

EP 2455510 A2 20120523; EP 2455510 A3 20120912; EP 2455510 B1 20161109; DE 102010060652 A1 20120524; HU E030617 T2 20170529

DOCDB simple family (application)

EP 11189585 A 20111117; DE 102010060652 A 20101118; HU E11189585 A 20111117