

Title (en)  
METHOD FOR COATING A CYLINDER BARREL OF A CYLINDER CRANKCASE, CYLINDER CRANKCASE WITH A COATED CYLINDER BARREL AND ENGINE

Title (de)  
VERFAHREN ZUR BESCHICHTUNG EINER ZYLINDERLAUFBAHN EINES ZYLINDERKURBELGEHÄUSES, ZYLINDERKURBELGEHÄUSE MIT EINER BESCHICHTETEN ZYLINDERLAUFBAHN SOWIE MOTOR

Title (fr)  
PROCÉDÉ POUR RECOUVRIR UNE SURFACE DE GLISSEMENT DE CYLINDRE D'UN BLOC-CYLINDRES, BLOC-CYLINDRES AVEC UNE SURFACE DE GLISSEMENT DE CYLINDRE RECOUVERTE ET MOTEUR

Publication  
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Application  
**EP 16730300 A 20160608**

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Abstract (en)  
[origin: WO2017012769A1] The invention relates to a method for coating a cylinder barrel of a cylinder crankcase. It is provided that the method comprises the steps a: providing a powdered basic material and a powdered bonding agent, wherein the bonding agent comprises a mixture of molybdenum (Mo) and an aluminium-containing alloy (A(X)Al), and b: applying the basic material and the bonding agent to a cylinder barrel (1) of a cylinder crankcase (10) by means of a thermal coating process, either - by applying a layer (3) of a powder mixture of bonding agent and basic material, or - applying a first layer (5), comprising the bonding agent, to the surface of the workpiece and subsequently applying a second layer (6), comprising the basic material, to the first layer (5). The invention also relates to a cylinder crankcase (10) with a cylinder barrel (1) that has a coating (2), it being provided that the coating (2) has - a layer (3, 5), comprising a basic material and/or a bonding agent of molybdenum (Mo) and an aluminium-containing alloy (A(X)Al), arranged on a surface of the workpiece (1) and - if the first layer comprises both the basic material and the bonding agent, a further layer (6), which comprises the basic material but not the bonding agent, arranged on the layer (5).

IPC 8 full level  
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