

Title (en)
LAYER STACK FOR ARRANGEMENT IN A COMBUSTION CHAMBER OF AN INTERNAL COMBUSTION ENGINE, IN PARTICULAR A PISTON,
AND A METHOD FOR PRODUCING SAME

Title (de)
SCHICHTSTAPEL ZUR ANORDNUNG IN EINEM BRENNRAUM EINER VERBRENNUNGSMASCHINE, INSBESONDERE EINES KOLBENS,
SOWIE EIN VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)
EMPILEMENT DE COUCHES DESTINÉ À ÊTRE DISPOSÉ DANS UNE CHAMBRE DE COMBUSTION D'UN MOTEUR À COMBUSTION
INTERNE, EN PARTICULIER D'UN PISTON, AINSI QUE PROCÉDÉ POUR SA FABRICATION

Publication
EP 3717680 A1 20201007 (DE)

Application
EP 18812124 A 20181128

Priority
• DE 102017221733 A 20171201
• EP 2018082871 W 20181128

Abstract (en)
[origin: WO2019106026A1] The invention relates to a layer stack for arrangement in a combustion chamber of an internal combustion engine, in particular a piston, and a method for producing same. According to the invention, the layer stack (20) comprises a porous base layer (21) comprising an Al₂O₃ ceramic which is arranged directly or indirectly on the surface (11) and a non-porous sealing layer (24) arranged on the side of the base layer (21) facing the combustion chamber, wherein both the base layer (21) and the sealing layer (24) have a thermal conductivity λ of no more than 5 W/mK.

IPC 8 full level
C25D 11/02 (2006.01); **C25D 11/08** (2006.01); **C25D 11/24** (2006.01); **C25D 11/26** (2006.01); **F02F 3/14** (2006.01)

CPC (source: EP)
C25D 11/024 (2013.01); **C25D 11/026** (2013.01); **C25D 11/08** (2013.01); **C25D 11/246** (2013.01); **C25D 11/26** (2013.01); **F02F 3/14** (2013.01); **F05C 2251/048** (2013.01)

Citation (search report)
See references of WO 2019106026A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2019106026 A1 20190606; DE 102017221733 A1 20190606; EP 3717680 A1 20201007

DOCDB simple family (application)
EP 2018082871 W 20181128; DE 102017221733 A 20171201; EP 18812124 A 20181128