

Title (en)

PISTON AND METHOD FOR PRODUCING SAME

Title (de)

KOLBEN UND VERFAHREN ZUR HERSTELLUNG DESSELBEN

Title (fr)

PISTON ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 4073370 A1 20221019 (DE)

Application

EP 20820892 A 20201207

Priority

- DE 102019219445 A 20191212
- EP 2020084882 W 20201207

Abstract (en)

[origin: WO2021116018A1] The present invention relates to pistons (10) for use in internal combustion engines, having: a piston crown (12) which is adjoined by a piston skirt (14), wherein the piston skirt (14) has surfaces (18) which lie against the cylinder wall during use of the piston, wherein the surfaces (16) have one or more friction-reducing coatings (18) and wherein depressions (20) are provided in the coating, which depressions (20) are arranged such that the spacing S between in each case two adjacent depressions (20) along the axial direction (A) of the piston and the width L of the depressions (20) along the axial direction (A) of the piston satisfy the formula $S > 2 L$.

IPC 8 full level

F02F 3/10 (2006.01)

CPC (source: EP US)

F02F 3/027 (2013.01 - US); **F02F 3/10** (2013.01 - EP); **F02F 3/105** (2013.01 - US)

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)

DE 102019219445 A1 20210617; CN 114829759 A 20220729; EP 4073370 A1 20221019; JP 2023505574 A 20230209; US 12037960 B2 20240716; US 2023023170 A1 20230126; WO 2021116018 A1 20210617

DOCDB simple family (application)

DE 102019219445 A 20191212; CN 202080084773 A 20201207; EP 2020084882 W 20201207; EP 20820892 A 20201207; JP 2022535657 A 20201207; US 202017784143 A 20201207