

Title (en)  
INTERNAL COMBUSTION ENGINE AND TRANSPORT EQUIPMENT

Title (de)  
VERBRENNUNGSMOTOR UND TRANSPORTVORRICHTUNG

Title (fr)  
MOTEUR À COMBUSTION INTERNE ET ÉQUIPEMENT DE TRANSPORT

Publication  
**EP 4224004 A1 20230809 (EN)**

Application  
**EP 21957735 A 20211214**

Priority  
JP 2021045974 W 20211214

Abstract (en)  
An internal combustion engine (100) includes a piston (40) formed of an aluminum alloy, the piston including a piston head (43) and a piston skirt (44) extending from an outer circumferential portion of the piston head; and a cylinder block (10) including a cylinder wall (12) including a sliding surface (12a), along which the piston is slidable. The cylinder block is formed of an aluminum alloy containing silicon, and includes a plurality of primary-crystal silicon grains (2) at the sliding surface. The piston skirt includes a resin layer (rl) formed on at least a part of an outer circumferential surface thereof.

IPC 8 full level  
**F02F 1/00** (2006.01)

CPC (source: EP)  
**F02F 3/105** (2013.01)

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BA ME

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DOCDB simple family (publication)  
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