

Title (en)  
INTERNAL COMBUSTION ENGINE, STRADDLED VEHICLE, AND METHOD FOR MANUFACTURING INTERNAL COMBUSTION ENGINE

Title (de)  
VERBRENNUNGSMOTOR, GRÄTSCHSITZFAHRZEUG UND VERFAHREN ZUR HERSTELLUNG EINES VERBRENNUNGSMOTORS

Title (fr)  
MOTEUR À COMBUSTION INTERNE, VÉHICULE À ENFOURCHER ET PROCÉDÉ DE FABRICATION D'UN MOTEUR À COMBUSTION INTERNE

Publication  
**EP 3842629 A1 20210630 (EN)**

Application  
**EP 20202139 A 20201015**

Priority  
JP 2019233129 A 20191224

Abstract (en)  
An internal combustion engine (10) comprises a cylinder body (12) comprising: a first hole (41), into which a bolt is inserted, and a water jacket (12W) formed therein; and a cylinder head that is fastened to the cylinder body (12) by the bolt. As the cylinder body (12) is seen along a cylinder axial line (31c), an outer contour (35) of the water jacket (12W) comprises a first depressed portion (71) that is located radially outward of the first hole (41) and that is depressed in a direction radially outward of a cylinder (31).

IPC 8 full level  
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CPC (source: EP)  
**B22C 9/065** (2013.01); **B22C 9/24** (2013.01); **B22D 15/02** (2013.01); **F02F 1/10** (2013.01)

Citation (applicant)  
JP 2011167706 A 20110901 - HONDA MOTOR CO LTD

Citation (search report)  
• [X] EP 2131031 A1 20091209 - YAMAHA MOTOR CO LTD [JP]  
• [X] CN 102352799 A 20120215 - ANHUI JIANGHUAI AUTOMOBILE CO  
• [X] CN 201363182 Y 20091216 - GUANGXI YUCHAI MACHINERY CO [CN]  
• [X] EP 1361355 A1 20031112 - YANMAR CO LTD [JP]  
• [XA] KR 20100046491 A 20100507 - HYUNDAI MOTOR CO LTD [KR], et al  
• [A] JP H06126411 A 19940510 - TOYOTA MOTOR CORP

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