

Title (en)

LUBRICATION DEVICE FOR CYLINDER INNER WALL IN TWO-STROKE CYCLE INTERNAL COMBUSTION ENGINE

Title (de)

SCHMIERVORRICHTUNG FÜR ZYLINDERINNENWAND IN EINEM ZWEITAKT-VERBRENNUNGSMOTOR

Title (fr)

DISPOSITIF DE LUBRIFICATION POUR PAROI INTERIEURE DE CYLINDRE DANS MOTEUR A COMBUSTION INTERNE A DEUX TEMPS

Publication

EP 1818530 A1 20070815 (EN)

Application

EP 05814347 A 20051201

Priority

- JP 2005022501 W 20051201
- JP 2004350772 A 20041203

Abstract (en)

A plurality of dimples 10 are provided at the region of an overlap stroke section W, where piston rings 8 provided at an upper end of a piston around an outer circumference thereof and oil rings 9 provided at a lower end of the piston around the outer circumference thereof overlap each other as the piston reciprocates, on a portion of a cylinder inner wall surface 2a which lies below lower edges of opening holes in scavenging ports, or a surface roughness of the region of the overlap stroke section W is increased higher than that of the remaining region of the cylinder inner wall surface 2a.

IPC 8 full level

F02F 1/20 (2006.01); **F02F 1/22** (2006.01); **F16J 10/04** (2006.01)

CPC (source: EP)

F02F 1/20 (2013.01); **F02F 1/22** (2013.01)

Citation (search report)

See references of WO 2006059790A1

Cited by

EP2678546A4; EP2686538A4; RU2469202C2; EP2050946A1; EP3115653A1; CN106337756A; GB2540209B; US10337615B2; WO2017049982A1; US10245806B2; US11020933B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1818530 A1 20070815; JP 2006161589 A 20060622; JP 4276617 B2 20090610; WO 2006059790 A1 20060608

DOCDB simple family (application)

EP 05814347 A 20051201; JP 2004350772 A 20041203; JP 2005022501 W 20051201