

Title (en)

AN INTERNAL COMBUSTION ENGINE HAVING A COKE SCRAPING RING IN A CYLINDER

Title (de)

BRENNKRAFTMASCHINE MIT EINEM KOKSSCHABRING IN EINEM ZYLINDER

Title (fr)

MOTEUR A COMBUSTION INTERNE DOTE D'UN ANNEAU DE GRATTAGE DU DEPOT CHARBONNEUX DANS UN CYLINDRE

Publication

EP 0837982 A1 19980429 (EN)

Application

EP 96922776 A 19960628

Priority

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- DK 80495 A 19950707

Abstract (en)

[origin: WO9703280A1] A two-stroke crosshead engine with uniflow scavenging has a coke scraping ring in a cylinder and a piston (18) longitudinally displaceable in the cylinder and provided with piston rings (19, 19') which slide along the substantially cylindrical inner surface of the cylinder at the displacement of the piston and create a pressure-sealing separation between the volume below the piston and the working chamber (20), which is located above the uppermost piston ring of the piston and is defined by the uppermost piston ring (19'), the piston (18), the inner surface of the cylinder and the cylinder cover (8). The coke scraping ring (23) protrudes from the inner surface of the cylinder and extends annularly along it in an axial position so that the uppermost piston ring is positioned near the lower edge of the coke scraping ring when the piston is in its top dead centre position. In its cylindrical inner surface the coke scraping ring (23) is provided with several leakage grooves (24) which extend obliquely relative to the longitudinal axis of the cylinder from the lower surface to the top surface of the coke scraping ring. Alternatively, the leakage grooves may be provided in the cylindrical outer surface of the uppermost piston section (21) positioned above the uppermost piston ring.

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See references of WO 9703280A1

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WO 9703280 A1 19970130; CN 1080821 C 20020313; CN 1181122 A 19980506; DE 69601375 D1 19990225; DE 69601375 T2 19990701; DK 174074 B1 20020521; DK 80495 A 19950707; EP 0837982 A1 19980429; EP 0837982 B1 19990113; ES 2127645 T3 19990416; HR P960326 A2 19970831; HR P960326 B1 20000229; JP 3202243 B2 20010827; JP H11509288 A 19990817; KR 100291822 B1 20010917; KR 19980702660 A 19980805; PL 179372 B1 20000831; PL 322366 A1 19980119; RU 2153089 C2 20000720

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