

Title (en)

Piston for an internal-combustion engine running on heavy oil.

Title (de)

Kolben für mit Schweröl betriebene Brennkraftmaschinen.

Title (fr)

Piston pour un moteur à combustion interne fonctionnant à l'huile lourde.

Publication

EP 0086284 A1 19830824 (DE)

Application

EP 82201613 A 19821217

Priority

DE 3205173 A 19820213

Abstract (en)

1. A piston for internal combustion engines operated with heavy oil, which piston has a piston head consisting of ferrous material and having cavities for conducting cooling oil, characterized by the provision of blind holes (4, 9), which are provided in the skirt of the piston behind the ring-carrying portion (3), and of rods (5, 8) consisting of a material having a high thermal conductivity and inserted in respective ones of said blind holes for ensuring a controlled transfer of heat from the piston to those regions of the ring-carrying portion of the piston in which the temperature must be increased in order to prevent an occurrence of temperatures below the dew point temperature of sulfuric acid.

Abstract (de)

Bei einem Kolben sind zur Vermeidung der Unterschreitung des Säuretaupunktes der Schwefelsäure im Bereich hinter der Ringpartie (3) des Kolbens Sacklöcher (4) mit darin eingesetzten Stäben aus gut wärmeleitendem Werkstoff angeordnet.

IPC 1-7

F02F 3/18

IPC 8 full level

F02F 3/22 (2006.01); **F02F 3/18** (2006.01)

CPC (source: EP)

F02F 3/18 (2013.01); **F05C 2201/0448** (2013.01)

Citation (search report)

- [Y] DE 2930079 A1 19810312 - MAHLE GMBH
- [Y] DE 762820 C 19521104 - RICHARD HOLZAEPFEL FA
- [A] DE 726685 C 19421019 - VERSUCHSANSTALT FUER LUFTFAHRT
- [A] FR 2333962 A1 19770701 - KIORITZ CORP [JP]
- [A] DE 3017787 A1 19811112 - KLOECKNER HUMBOLDT DEUTZ AG [DE]

Cited by

CN107980079A; FR2905145A1; DE102007050214A1; CN108025406A; EP0176430A1; FR2570439A1; CN102597472A; EP3267022A1; US10202936B2; WO2016164873A1; WO2011060004A1; DE102020213358A1; US8635943B2; US8899208B2; US10569325B2; WO2017032905A1; WO2018149632A1

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