

Title (en)

TOOL FOR UNITARY REMOVAL OF ENGINE CYLINDER LINER, PISTON AND ROD

Publication

**EP 0197563 B1 19890809 (EN)**

Application

**EP 86105082 A 19831024**

Priority

US 49094283 A 19830502

Abstract (en)

[origin: WO8404358A1] To service an engine (10), it is frequently determined that a cylinder liner (16) and piston (26) must be replaced. Removal is difficult and time consuming if the piston (26) is first removed through the liner (16) and the liner (16) is then grasped from below and pulled from the block (14). A method includes inserting a tool (12) into a bore (18) of the liner (16) and expanding the tool (12) into a frictional fit against the liner (16). A force is applied on the tool (12) to forcibly move the liner (16). The piston (26) and associated rings (22) and rod (24) are held in place in the liner (16) by a partial vacuum for removal with the liner (16) as a complete unit (58).

IPC 1-7

**F02F 7/00**; **B23P 19/04**; **B23P 19/02**; **B25B 27/02**

IPC 8 full level

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