

Title (en)  
INTERNAL COMBUSTION ENGINE WITH LIQUID-COOLED CYLINDERS

Title (de)  
BRENNKRAFTMASCHINE MIT FLÜSSIGKEITSGEKÜHLTEN ZYLINDERN

Title (fr)  
MOTEUR A COMBUSTION INTERNE A CYLINDRES REFROIDIS PAR LIQUIDE

Publication  
**EP 1147297 B1 20021120 (DE)**

Application  
**EP 99962241 A 19991208**

Priority  
• DE 19902286 A 19990121  
• EP 9909632 W 19991208

Abstract (en)  
[origin: DE19902286A1] The engine has at least two liquid-cooled cylinders (1-4) in a block (13) arranged in series with their cylinder tubes (5-8) in annular, communicating cooling chambers (9-12) with flowing coolant in a cooling system, whereby a first flow component (15) of the cylinder tube for the first cylinder (1) flows on one side and a second component (16) on the other side. A parameter dependent on the flow speed of the coolant for the first and/or second component of flow is determined and the flow speeds of the components (15,16) are controlled depending on it.

IPC 1-7  
**F01P 3/02**; **F01P 7/14**

IPC 8 full level  
**F01P 3/02** (2006.01); **F01P 7/14** (2006.01)

CPC (source: EP)  
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