

Title (en)  
Internal combustion engine with variable capacity and compression ratio

Title (de)  
Brennkraftmaschine mit variablem Verdichtungsverhältnis und Hubraum

Title (fr)  
Moteur à combustion interne, à rapport volumétrique et à cylindrée variables

Publication  
**EP 1143127 B1 20050316 (FR)**

Application  
**EP 01400802 A 20010328**

Priority  
FR 0004298 A 20000404

Abstract (en)  
[origin: EP1143127A1] The engine consists of a cylinder (1) containing a reciprocating piston (2) and a mechanism to vary the volume of the cylinder according to operating conditions, comprising a two-arm lever (4) with its arms at an angle of 100 - 130 degrees to one another. The lever is pivoted to the engine crankshaft (15) and connected at one end to the piston rod (3) and at the other to a balance arm (7) linked by a regulator (8) to an actuator (20).

IPC 1-7  
**F02B 75/04**; **F02D 15/02**

IPC 8 full level  
**F02B 75/04** (2006.01); **F02D 15/02** (2006.01)

CPC (source: EP)  
**F02B 75/048** (2013.01); **F02D 15/02** (2013.01)

Citation (examination)  
• WO 9743529 A1 19971120 - BROADSUPER LTD [GB], et al  
• WO 9914472 A1 19990325 - BROADSUPER LTD [GB], et al

Cited by  
CN105745418A; EP1496219A1; CN112855357A; DE102014221250A1; CN113958405A; DE102010032433A1; US7021254B2; DE102010032427A1; DE102010032489A1; DE102010032425A1; WO0212694A1; WO2004053345A1; US6772717B2; US9982596B2; DE102010032490A1; WO2012013260A1

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