

Title (en)  
Internal combustion engine having integrated supercharging

Title (de)  
Brennkraftmaschine mit integrierter Aufladung

Title (fr)  
Moteur à combustion interne avec chargement intégré

Publication  
**EP 2241736 A3 20110622 (DE)**

Application  
**EP 10005353 A 20070814**

Priority  
• EP 07786686 A 20070814  
• DE 102006038081 A 20060816

Abstract (en)  
[origin: EP2241736A2] The method involves increasing and decreasing of volume of a working area (8) limited by a piston (4) moving back and forth in a cylinder (2). The load contained in the working area propels the piston for the delivery of work, with the combustion under extension of the area during a working stroke. The volume of the fresh air sucked in a compression chamber (14) is cyclically changed depending on the piston movement. A fresh air quantity is supplied to the working area and the fresh air volume sucked in between two strokes is larger than the variation in volume of the area during stroke. An independent claim is also included for an internal combustion engine with an integrated loading.

IPC 8 full level  
**F02B 75/06** (2006.01); **F02B 33/12** (2006.01); **F02B 33/18** (2006.01); **F02B 33/26** (2006.01); **F02B 33/30** (2006.01); **F02M 35/022** (2006.01)

CPC (source: EP)  
**F02B 33/12** (2013.01); **F02B 33/18** (2013.01); **F02B 33/30** (2013.01); **F02B 75/065** (2013.01); **F02M 35/022** (2013.01); **F02B 33/26** (2013.01); **F02M 29/06** (2013.01)

Citation (search report)  
• [XYI] US 5836273 A 19981117 - HAIR KELVIN JOHN [NZ]  
• [YA] FR 2683857 A1 19930521 - DEFARGE ALEXIS  
• [X] DE 3426487 A1 19860130 - SAUER HELMUT  
• [I] WO 9001647 A1 19900222 - SARNO COSIMO [IT]

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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DE 502007004087 D1 20100722; EP 2054594 A1 20090506; EP 2054594 B1 20100609; WO 2008019826 A1 20080221

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