

Title (en)  
Enhanced two-stroke endothermic engine

Title (de)  
Verbesserte Zweitakt-Brennkraftmaschine

Title (fr)  
Moteur endothermique à deux temps amélioré

Publication  
**EP 1314870 A1 20030528 (EN)**

Application  
**EP 01830718 A 20011121**

Priority  
EP 01830718 A 20011121

Abstract (en)  
The enhanced two-stroke engine (1) comprises a crankcase (2), a cylinder (3) provided with an exhaust port (6), a series of transfer ports (7) communicating with the crankcase (2), the cylinder (3) further comprises at least an air inlet port (8) positioned in proximity to the exhaust port (6) and connected to a source (13) that supplies pure air towards the port (8), in such a way that the air allowed in by the port (8) creates an air barrier in front of the exhaust port (6); the pollution-abating action is based on three different principles: (i) shield against the egress of cool gases to the exhaust, (ii) oxidation and post-combustion in the exhaust system anticipating the operation of the catalyst, (iii) stratification of the charge of fuel-air mixture in the cylinder with globally leaner combustion with respect to traditional two-stroke engines. <IMAGE>

IPC 1-7  
**F02B 25/22**

IPC 8 full level  
**F02B 25/22** (2006.01); **F02B 61/02** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP)  
**F02B 25/22** (2013.01); **F02B 61/02** (2013.01); **F02B 2075/025** (2013.01)

Citation (applicant)  

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- [X] PATENT ABSTRACTS OF JAPAN vol. 010, no. 273 (M - 518) 17 September 1986 (1986-09-17)

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