

Title (en)  
TWO-STROKE ENGINE TRANSFER PORTS

Title (de)  
ÜBERSTRÖMSCHLITZE VON ZWEITAKTMOTOR

Title (fr)  
ORIFICES DE TRANSFERT POUR MOTEUR DEUX TEMPS

Publication  
**EP 1556594 B1 20111221 (EN)**

Application  
**EP 03774559 A 20031006**

Priority  
• US 0331470 W 20031006  
• US 26493902 A 20021004  
• US 45207903 A 20030530

Abstract (en)  
[origin: WO2004033869A2] A two-stroke internal combustion engine including a cylinder; and a piston movably mounted in the cylinder. The cylinder includes an exhaust port and transfer ports. The transfer ports include a first pair of the transfer ports disposed closer to the exhaust port than a second pair of the transfer ports which are disposed further away from the exhaust port. The first pair of transfer ports are angled relative to each other at a first angle of about 70° to about 85 ° and the second pair of transfer ports are angled relative to each other at a second angle of about 120° to about 150°. Directional discharge of scavenged air out of the transfer ports 10 establishes a flow path for the scavenged air to minimize losses of the fresh unburned fuel into the exhaust port.

IPC 8 full level  
**F02B 33/04** (2006.01); **F02B 25/14** (2006.01); **F02B 25/20** (2006.01); **F02B 63/02** (2006.01); **F02B 75/02** (2006.01)

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