

Title (en)
TWO CYCLE ENGINE WITH A STRATIFIED CHARGE

Title (de)
ZWEITAKTMOTOR MIT LADUNGSSCHICHTUNG

Title (fr)
MOTEUR DEUX TEMPS A STRATIFICATION DE LA CHARGE

Publication
EP 1141529 A1 20011010 (DE)

Application
EP 00902568 A 20000107

Priority
• DE 19900445 A 19990108
• EP 0000067 W 20000107

Abstract (en)
[origin: DE19900445A1] The invention relates to a two cycle engine for use as a driving engine in a portable, hand-controlled tool. The combustion chamber (83), which is configured in a cylinder (2), is delimited by a piston (5) which rises and falls. Said piston (5) drives a crankshaft (7) by means of a connecting rod (6), said crankshaft being rotationally mounted in a crankcase (4). The combustion chamber (3) has an outlet (10) for outflowing waste gases and gas-supplying channels (12, 15) which open into the combustion chamber (3) are provided for supplying an air-fuel mixture provided by a mixture-preparing device (8) and combustion air. According to the invention, only air blows by from the crankcase (4) in the proximity of the outlet and only the air-fuel mixture blows by from the crankcase (4) in the area further away from the outlet, for the entire duration of the gas exchange process, in order to reduce scavenging losses.

IPC 1-7
F02B 25/22

IPC 8 full level
F02B 25/16 (2006.01); **F02B 25/20** (2006.01); **F02B 25/22** (2006.01); **F02B 63/02** (2006.01); **F02B 75/02** (2006.01)

CPC (source: EP US)
F02B 25/22 (2013.01 - EP US); **F02B 63/02** (2013.01 - EP US); **F02B 2075/025** (2013.01 - EP US); **F02B 2075/027** (2013.01 - EP US)

Citation (search report)
See references of WO 0040843A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19900445 A1 20000713; DE 50003096 D1 20030904; EP 1141529 A1 20011010; EP 1141529 B1 20030730; JP 2002534630 A 20021015; US 6571756 B1 20030603; WO 0040843 A1 20000713

DOCDB simple family (application)
DE 19900445 A 19990108; DE 50003096 T 20000107; EP 0000067 W 20000107; EP 00902568 A 20000107; JP 2000592526 A 20000107; US 88906501 A 20010706