Title (en)

RECIPROCATING CYLINDER ENGINE

Publication

EP 0094932 B1 19891123 (EN)

Application

EP 82900175 A 19811125

Priority

US 8101570 W 19811125

Abstract (en)

[origin: WO8301978A1] An engine (10) that is applicable for automotive and truck use but is also adaptive for other power producing uses and can be designed with two or more cylinders. The engine has multifuel capabilities. Two reciprocating cylinders (70, 72) are housed within an outer cylinder (36). A piston (126, 128) is housed within each of the two reciprocating cylinders (70, 72). The reciprocating cylinders (70, 72) are so designed that after combustion in one reciprocating cylinder, the movement caused by the combustion will aid in setting up the circumstances necessary for combustion in the opposing compression chamber formed by the opposing reciprocating cylinder and piston. Due to this design, the horizontal movement caused by the combustion in both opposing reciprocating cylinders (70, 72) and both opposing pistons (126, 128) is useful. The horizontal movement of the reciprocating cylinders (70, 72) and pistons (126, 128) is translated into rotational energy in the crankshaft (24) by three scotch yokes (118, 120, 145) each scotch yoke (118, 120, 145) housing a scotch block (156, 158, 160), each scotch block (156, 158, 160) in turn surrounding one crankthrow (162, 164, 166).

IPC 1-7

F02B 59/00

IPC 8 full level

F01B 9/02 (2006.01); **F02B 59/00** (2006.01); **F02B 75/24** (2006.01); **F02B 75/32** (2006.01); F02B 3/06 (2006.01)

CPC (source: EP)

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