



US007549401B2

(12) **United States Patent**
Lemke et al.

(10) **Patent No.:** **US 7,549,401 B2**
(45) **Date of Patent:** **Jun. 23, 2009**

(54) **TWO-CYCLE, OPPOSED-PISTON INTERNAL COMBUSTION ENGINE**

(58) **Field of Classification Search** 123/41.35,
123/41.34, 41.38, 51 AA, 51 BA, 53.2, 67,
123/197.4

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See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **11/629,136**

(22) PCT Filed: **Jun. 10, 2005**

(86) PCT No.: **PCT/US2005/020553**

§ 371 (c)(1),
(2), (4) Date: **Dec. 8, 2006**

(87) PCT Pub. No.: **WO2005/124124**

PCT Pub. Date: **Dec. 29, 2005**

(65) **Prior Publication Data**

US 2007/0245892 A1 Oct. 25, 2007

Related U.S. Application Data

(63) Continuation-in-part of application No. 10/865,707,
filed on Jun. 10, 2004, now Pat. No. 7,156,056.

(51) **Int. Cl.**
F01P 1/04 (2006.01)
F01P 1/06 (2006.01)

(52) **U.S. Cl.** 123/41.34; 123/51 BA

(57) **ABSTRACT**

In a two-cycle, opposed-piston internal combustion engine, opposed pistons disposed in a cylinder are coupled to a pair of side-mounted crankshafts by connecting rods that are subject to substantially tensile forces acting between the pistons and the crankshafts. This geometry reduces or eliminates side forces between the pistons and the bore of the cylinder. The cylinder and the pistons are independently cooled to reduce cylindrical deformation caused by thermal expansion during engine operation.

54 Claims, 41 Drawing Sheets

