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(54) **MULTI-CYLINDER OPPOSED PISTON ENGINES**

(75) Inventors: **James U. Lemke**, La Jolla, CA (US); **Gordon E. Rado**, Carlsbad, CA (US); **Michael H. Wahl**, Bonita, CA (US); **Patrick R. Lee**, San Diego, CA (US); **Eric P. Dion**, Encinitas, CA (US); **Jin Dai**, San Diego, CA (US); **Louis F. Medeiros**, Oceanside, CA (US); **Tristan M. Burton**, San Diego, CA (US); **Ryan G. MacKenzie**, San Diego, CA (US); **Brendan M. Lenski**, Carlsbad, CA (US); **Todd R. Rose**, San Diego, CA (US); **Clark A. Klyza**, San Diego, CA (US)

(73) Assignee: **Achates Power, Inc.**, San Diego, CA (US)

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USPC **123/52.2**; 123/51 R; 123/41.81; 123/41.83; 123/41.84

(58) **Field of Classification Search**

USPC 123/51 R, 41.81, 41.83, 41.84, 41.72
See application file for complete search history.

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Primary Examiner — Thanh Truong

Assistant Examiner — Ruben Picon-Feliciano

(74) *Attorney, Agent, or Firm* — Terrance A. Meador; INCAPLAW

(57) **ABSTRACT**

Integrated, multi-cylinder opposed engine constructions include a unitary support structure to which cylinder liners are removeably mounted and sealed and on which crankshafts are rotatably supported. The unitary support structure includes cooling manifolds that provide liquid coolant to the cylinder liners. Exhaust and intake manifolds attached to the support structure to serve respective ports in the cylinder liner. The engine constructions may also include certain improvements in the construction of cooled pistons with flexible skirts, and in the construction of cylinders with sealing structures mounted outside of exhaust and inlet ports to control lubricant in the cylindrical interstice between the through bore and the pistons.

6 Claims, 28 Drawing Sheets

