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**Lemke et al.**

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(54) **CYLINDER AND PISTON ASSEMBLIES FOR OPPOSED PISTON ENGINES**

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**F01B 7/12** (2006.01)

(52) **U.S. Cl.**  
USPC ..... **123/51 R**; 123/52.2; 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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(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 engine constructions include a cooled piston with a resiliently deformable joint connecting crown and skirt and a cooled cylinder liner with wipers to manage lubricant in the cylindrical interstice between the cylinder bore and the piston skirts.

**8 Claims, 28 Drawing Sheets**

