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Opposed Piston Two Stroke Diesel

The Fairbanks-Morse 38 8-1/8 is a diesel engine of the two-stroke, opposed-piston type. It was developed in the 1930s, and is similar in arrangement to a contemporary series of German Junkers aircraft diesels . [2]

Fairbanks Morse 38 8-1/8 diesel engine - Wikipedia

The Advanced Combat Engine (ACE) project is a joint venture between Cummins and California-based Achates Power, who has designed an opposed-piston engine that works on a two-stroke combustion cycle...

Cummins developing revolutionary new diesel engine for U.S ...

1914 Simpson's Balanced 2-stroke engine An opposed-piston engine is a piston engine in which each cylinder has a piston at both ends, and no cylinder head. Petrol and diesel opposed-piston engines have been used, mostly in large scale applications such as ships, military tanks and in factories.

Opposed-piston engine - Wikipedia

Part 1 - Scavenging Performance of a Two-Stroke Opposed-Piston Diesel Engine - Duration: 9:25. Achates Power 10,122 views. 9:25. 1177 BC: The Year Civilization Collapsed ...

Part 2 - Scavenging Performance of a Two-Stroke Opposed-Piston Diesel Engine

Achates Power announced that it has achieved ultra-low emissions with its 10.6-liter two-stroke diesel. The opposed-piston engine reached an ultra-low NOx standard of 0.02 g/bhp-hr in the company's San Diego-based lab and will enter a fleet testing phase early next year with Tyson Foods and Walmart in California.

Achates near-zero diesel engine to be tested in a ...

The OPOC engine is an opposed-piston opposed-cylinder, 2-stroke engine. It consists of two cylinders with a piston at both ends. It has no cylinder head, so there are no valves. Each piston travels about half the distance of a cylinder in a conventional engine.

Innovative OPOC Engine: Opposed Piston Opposed Cylinder ...

For the last 14 years, the San Diego-based company has been busy working to improve the opposed-piston engine with one of its variants being a two-stroke diesel, a lesser-known oil burner dating back over 100 years to its inventor Rudolf Diesel and more typically found today in marine applications. Achates' opposed-piston engines have no cylinder heads and no valve trains.

Two-stroke diesel project underway between Cummins ...

An unknown automaker has inked a deal with Achates Power to produce its unconventional opposed-piston engine, which promises greater efficiency. ... turbocharged 4.9-liter two-stroke diesel ...

At Least One Automaker Plans to Produce an Opposed-Piston ...

The 2.7L OP Diesel Engine in a light-duty pickup will achieve 42 MPG (CAFE Combined) and 37 MPG in the OP GCI. ... Opposed piston, diesel fuel, 2 stroke. - Duration: 3:30.

FIRST DRIVE: Achates Power 2 7L OP Engine

Opposed-piston diesel engines are rare enough at this size, the rocker lever arrangement was almost unheard of. Probably the only engine using a similar arrangement was the pre-war Sulzer ZG9. This was an opposed-piston engine with a choice of two, three and four cylinders (2ZG9, 3ZG9, 4ZG9); the two-cylinder version developed 120 bhp.

Commer TS3 - Wikipedia

Research has shown two-stroke opposed piston engines to be wildly efficient. 3 cylinder designs are the most efficient, and it's possible to achieve brake thermal efficiencies as high as 55%, a...

Opposed Piston Diesel Engines Are Crazy Efficient

Published on Jan 11, 2012 Opposed piston 2 stroke diesel engine, inspired by the Junkers Jumo 205D concept. The engine has 6 cylinders, 12 pistons and 2 crankshafts. I reccomend you to watch from...

Opposed piston 2 stroke diesel engine animation (Junkers Jumo 205 concept)

The Napier Deltic engine is a British opposed-piston valveless, supercharged uniflow scavenged, two-stroke Diesel engine used in marine and locomotive applications, designed and produced by D. Napier & Son. Unusually, the cylinders were disposed in a three bank triangle, with a crankshaft at each corner of the triangle.

Napier Deltic - Wikipedia

Opposed-piston engines(OPEs) have been around a long time—more than a century to be exact. First manufactured in 1890, these engines continue to be used in ground, marine and aviation applications worldwide.

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Unlike traditional four-stroke engines, OPEscombine two pistons per cylinder, working in opposite, reciprocating motion.

A Historical Look at Opposed-Piston Engines - Achates Power

It has twelve cylinders, each containing two opposed pistons. Two-stroke opposed-piston engines have inherent efficiency advantages stemming from the absence of cylinder heads, which means the combustion chamber has a lower surface-area-to-volume ratio than a conventional engine, and the fewer strokes per cycle compared with a four-stroke engine.

New Opposed Piston Engine from Fairbanks Morse

A similarly sectioned Junkers Jumo 207 aviation Diesel engine These engines all used a two-stroke cycle with twelve pistons sharing six cylinders, piston crown to piston crown in an opposed piston configuration. This unusual configuration required two crankshafts, one at the bottom of the cylinder block and the other at the top, geared together.

Junkers Jumo 205 - Wikipedia

No spark plugs, either -- the Achates design uses compression ignition like a diesel, but runs on gasoline. The Achates opposed piston engine places two opposed pistons in each cylinder. Note the...

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