

Available
Technologies

Carbon Material Based Heat Exchanger for Waste Heat Recovery from Engine Exhaust

Applications:

- Automotive engines
- Train, Marine, Aircraft engines
- Industrial processing plants
- Nuclear power
- Solar power

Advantages:

- Increased efficiency of overall heat recovery system
- Increased efficiency offsets costs of the technology
- Little increase in weight of heat exchanger

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**Summary:***Technology Description*

This invention uses a carbon material to recover heat from an engine's exhaust gas. The carbon material's physical attributes (porous, light weight) enable direct heat exchangers to be formed. The material's high thermal conductivity enables a high heat transfer from exhaust gas.

Technology Application

The invention is used to increase the efficiency of the heat exchanger.

Stage of Development: Purely Conceptual

Patent Status: Patent pending

Licensing Status: Available for licensing