

Thermal Energy Storage System Based on Novel Phase Change Material

*Andrey Soukhojak, David Bank, Jay Tudor, Michael Shoemaker
Mathias Warnecke, Kalyan Sehanobish*



Automotive Systems

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Basic Concept

- Put stored waste heat of exhaust gas (up to 30% of fuel's energy) to work when needed

New Technology

- Novel metal encapsulated Phase Change Material (PCM)
- Integrated systems designed to **Capture**, **Store** and **Release** thermal energy

Anticipated Benefits

- ✓ **Improved fuel economy**
- ✓ **Reduced HC & CO emissions**
- ✓ **Increased passenger comfort**

