

# Ohio

This fact sheet lists Inventions & Innovation projects from the state of Ohio.



## Building Technologies


### ■ Aluminum Roofing System - Transmet Corporation

 **Grant Category:** 1985 Category 2 Grant, \$78,878 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/transmet.pdf>


 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/transmetcorporation.pdf>

### ■ Restaurant Exhaust Ventilation Modulator - Melink Corporation

 **Grant Category:** 1992 Category 2 Grant, \$88,000 Funding

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/melinkcorp.pdf>

### ■ RR-1 Insulating Screw Cap - Romine Co.

 **Grant Category:** 1997 Category 2 Grant, \$99,999 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/romine.pdf>

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/theromineco.pdf>

### ■ Variable Speed, High Efficiency, Integrated Electronic Motor for Residential HVAC Systems - DynaMotors Inc.

 **Grant Category:** 2002 Category 2 Grant, \$200,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/dynamotors.pdf>

 **Annual Report:** [http://www.eere.energy.gov/inventions/pdfs/12065\\_dynamotors\\_inc.pdf](http://www.eere.energy.gov/inventions/pdfs/12065_dynamotors_inc.pdf)

## Distributed Energy

- **Rotary Burner - Calcpos Engineering**

 **Grant Category:** 1999 Category 2 Grant, \$100,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/calcpos.pdf>

## FreedomCAR & Vehicle Technologies

- **Innovative Approach to Improved Fuel Economy in Heavy-Duty Trucks - SuperDrive, Inc.**

 **Grant Category:** 2001 Category 2 Grant, \$181,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/superdrive.pdf>

- **Miniature, Inexpensive, Amperometric Oxygen Sensor - CeramPhysics, Inc.**

 **Grant Category:** 1999 Category 2 Grant, \$99,812 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/oxygen.pdf>

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/ceramphysicsinc.pdf>

## Industrial Technologies

### *Aluminum*

- **High Capacity Melt Furnace -Micropyretics Heaters International, Inc.**

 **I&I Impacts:** <http://www.eere.energy.gov/inventions/pdfs/micropyretics heatersinternational.pdf>

- **Novel Technique for Increasing Corrosion Resistance of Aluminum and Aluminum Alloys - Ohio State University (University of Virginia)**

 **Grant Category:** 1994 Category 2 Grant, \$93,966 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/osu.pdf>

 **Abstract:** [http://www.eere.energy.gov/inventions/pdfs/ohio\\_state2.pdf](http://www.eere.energy.gov/inventions/pdfs/ohio_state2.pdf)

- **Versatile and Rapid Plasma Heating Device for Steel and Aluminum - Bayzi Corporation**

 **Grant Category:** 2004 Category 2 Grant, \$250,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/bayzi.pdf>

## *Chemicals*

- **Electrocaloric Materials for Room Temperature Refrigeration - CeramPhysics, Inc.**

 **Grant Category:** 1999 Category 1 Grant, \$40,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/ceramphys.pdf>

## *Cross-cutting*

- **Apparatus and Method of Filtering Molten Metal - Hitchings, Jay**

 **Grant Category:** 1997 Category 2 Grant, \$99,999 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/moltenmetal.pdf>

- **Oxide Dispersion Strengthened Iron Aluminide by CVD Coated Powders - Powdermet, Inc.**

 **Grant Category:** 2003 Category 2 Grant, \$199,750 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/powdermet2.pdf>


- **Polymer Dispersed Ferroelectric Smectic-C\* Display Technology - Kent State University**

 **Grant Category:** 1992 Category 2 Grant, \$99,993 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/kentstate.pdf>

## *Glass*

- **Monitoring of Refractory Wall Recession Using High Temperature Impact-Echo - The University of Dayton**

 **Grant Category:** 2002 Category 1 Grant, \$39,939 Funding

 **Annual Report:** [http://www.eere.energy.gov/inventions/pdfs/12051\\_universityofdayton.pdf](http://www.eere.energy.gov/inventions/pdfs/12051_universityofdayton.pdf)

## *Metal Casting*

- **Advanced Pattern Material for Investment Casting Applications - Cleveland Tool and Machine (Ruska Instrument Corporation)**

 **Grant Category:** 2004 Category 2 Grant, \$250,000 Funding

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/clevelandtool.pdf>

- **Highly Efficient Rapid Tooling Using Optimized Cooling Passages - Edison Materials Technology Center (EMTEC)**

 **Grant Category:** 1999 Category 2 Grant, \$100,000 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/emtec.pdf>

## Solar Energy Technologies

- **High-Intensity Silicon Vertical Multi-Junction Solar Cells - Photovolt, Inc.**

 **Grant Category:** 2000 Category 2 Grant, \$142,900 Funding

 **Fact Sheet:** <http://www.eere.energy.gov/inventions/pdfs/photovolt.pdf>

 **Abstract:** <http://www.eere.energy.gov/inventions/pdfs/photovoltinc.pdf>



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