

# **Inventor of Super Soaker Does It Again: Lonnie Johnson Awarded Popular Mechanics 2008 Breakthrough Award for the Johnson Thermo- Electrochemical Converter**

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Atlanta, GA USA– October 22, 2008 – Johnson ElectroMechanical Systems (JEMS) today announced that it has been awarded a Popular Mechanics 2008 Breakthrough Award. JEMS was honored for the Johnson ThermoElectrochemical Converter (JTEC), which is an engine that operates on heat to create electricity. Lonnie Johnson, who has over 100 patents and is the inventor of the Super Soaker (which significantly impacted the consumer products industry), is now making big moves towards enabling solar power and other alternative energy sources with the invention of the JTEC. The JTEC will produce electricity using waste heat from almost any source including industrial processing of Biofuels.

On October 15, 2008 in New York City, Popular Mechanics announced their winners for the 2008 Breakthrough Awards. The awards recognize life-changing innovations and celebrate the role science and technology plays in improving lives around the world, expanding knowledge and building a better future.

“The JEMS team is honored and humbled to be recognized for such a prestigious award from Popular Mechanics,” said Lonnie Johnson, CEO and Inventor. “The JTEC will enable clean alternative energy to be more efficient and competitive with fossil fuels resulting in reduced dependence on oil and a cleaner and safer environment for our future”. “One of our primary goals is to cut the cost of solar energy in half. Achieving this goal will make solar energy practical as a power source in non desert sunbelt areas such as Georgia” added Johnson.

Unlike conventional engines, the Johnson ThermoElectrochemical Converter is a revolutionary solid-state heat-engine device that has no moving parts. It circulates hydrogen between two fuel cell-like membrane-electrode assemblies in a closed system. There is no oxygen or water in this system and the hydrogen is never consumed. The JTEC will deliver net efficiency ratings in excess of 60% enabling affordable and sustainable alternative clean generation of electricity.

### **About Johnson ElectroMechanical Systems**

Johnson ElectroMechanical Systems is a spin-off company from Johnson Research and Development Co., Inc (Johnson R&D) and is located in the downtown corridor of Atlanta. Johnson R&D utilizes technology in innovative and creative ways to set new global standards of performance for energy, consumer and industrial products. JEMS is a research and development company in the areas of environmental and energy related products. A key focus is to develop alternative energy generation technologies to meet tomorrow's energy needs.

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