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ZTEK CORPORATION TO OFFER PATENTS FOR LICENSING

Patents Address Hydrogen Infrastructure Development

WOBURN, MA (May 23, 2003) -- Ztek Corporation, a leader in developing solid oxide fuel cells and hydrogen reforming technology, today announced that it intends to make available for license the use of three (3) selected patents for off-board applications on a non-exclusive basis to enhance the program goals of other companies in the industry. Since its founding in 1983, Ztek has accumulated a portfolio of U.S. and international patents on its various key innovations for efficiency improvement, system simplification and cost reduction.

The patents available for licensing are of particular relevance to hydrogen infrastructure development and address the use of fuel cell vehicles to export power off-board as a means of generating additional revenue for the vehicle owner:

U.S. Patent Number 5,332,630, July 26, 1994
"On-Board Recharging System for Battery Powered Electric Vehicles"

U.S. Patent Number 5,858,568, January 12, 1999
"Fuel Cell Power Supply System"

U.S. Patent Number 6,380,637, April 30, 2002
"Off-Board Station and an Electricity Exchanging System Suitable for Use With a Mobile Vehicle Power System"

For more information on licensing the above patents, please contact:

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About Ztek
Ztek Corporation is located in Woburn, Massachusetts. The company's mission is to develop and commercialize the world's cleanest, most efficient fossil fuel energy conversion devices. Founded in 1983, Ztek has been engaged in the development of solid oxide fuel cell technology and the commercialization of hydrogen-reforming products. It holds more than 200 U.S. and international patents on its various key innovations for achieving improved efficiency, simplified and reduced cost of production.

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U.S. Patent Number 5,332,630, July 26, 1994
"On-Board Recharging Systems For Battery-Powered Electric Vehicles"

Abstract
A power supply system for powering an electric motor in an electric vehicle includes a rechargeable battery connected to the motor for driving the motor and a fuel cell assembly connected to the battery for recharging the battery. The system further includes structure for providing a supply of fuel to the fuel cell assembly which in turn converts the fuel to electricity for on-board or off-board use.

U.S. Patent Number 5,858,568, January 12, 1999
"Fuel Cell Power Supply System"

Abstract
A power supply system for enhancing the economic viability of different modes of transportation that incorporate fuel cells to generate electricity. For example, the power supply system of the present invention provides for the off-board use of the electric power generated by an on-board power plant, such as a fuel cell, of a mobile vehicle power system, such as an electric car. Off-board use, or use remote from the vehicle, of the electrical power includes the delivery of power to a remote site. Off-board stations are provided for delivery of fuel to the vehicle and/or for receiving the electrical power generated by the fuel cell. The off-board station and the vehicle are appropriately equipped for quick and easy interconnection such that electrical power is drawn from the fuel cell for off-board use.

U.S. Patent No. 6,380,637, April 30, 2002
"An Off-Board Station And An Electricity Exchanging System Suitable For Use With A Mobile Vehicle Power System"

Abstract
A mobile vehicle power supply system and an electricity exchanging system enhance the economic viability of different modes of transportation that incorporate generators, such as electric motors and fuel cells, to generate electricity. The power supply system provides for the off-board use of the electric power generated by the generator of a mobile vehicle, such as an electric car. Off-board use, or use remote from the vehicle, of the electrical power includes the delivery of power to a remote site. Off-board stations are provided for delivery of fuel to the vehicle and/or for receiving the electrical power generated by the fuel cell. The off-board station and the vehicle are appropriately equipped for quick and easy interconnection such that electrical power can be exchanged between the vehicle and off-board station and the electricity exchanging system. The electricity exchanging system is configured for installation at numerous locations for allowing a mobile vehicle operator to purchase or sell electricity. The operator employs a user authorization element to assist the recording or tracking of electricity exchanged between the vehicle and the electricity exchanging system.