Profile Status: Published

Business Offer

A Korean company producing heating composite materials and developing nano doping technology for high efficient heat convergence is in search of partners of distribution service agreement.

Summary

A Korean company is producing heating composite materials and developing nano doping technology for high efficient heat convergence. Nano doping technology applies on the heating system for building equipment and energy management. It consists of silicon carbide fiber, which leads to a high efficiency of heat convergence in a heating system. The firm would like to share their technology on the international market and is thus looking for distribution service agreement.

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Details

Description

A Korean company founded in 2002 has been a provider and manufacturer of energy management and control equipment for buildings, such as home and industrial appliances. Heating systems, therefore, are the fundamental technology, and the company developed with Silicon Carbide (SiC) fiber by nano-doping processes. The company invented nano doping technology because SiC developed with general processes result in less heating efficiency as it's developed with general processes. Moreover, Carbon Dioxide (CO2) occurs when the heating system operates, it becomes severe threats to the public environment.

Therefore, the company offers a novel technology that enables to overcome the problems produced due to the existing devices. SiC fibers have nanostructures through nano doping technology, such as control system, operator, heat exchanger, cycling systems. Operator, for instance, is structured with power board in order to generate microwave for heating SiC fibers, and the control systems are developed with application both on industries and house appliances.

For industrial usage, the main controller collects data from temperature sensors, and analyses, so various heating systems could be controlled. Along with the controller development, remote

monitor and control software are produced as well.

For examples of house usage, monitoring remote of heating systems applies on a boiler, and it enables for users to monitor the status by laying out wire controller. Also, standard protocols and interface based on IoT (Internet of Things) are developed to be connected with a smartphone.

The company is open to distribution service agreement because SiC fibers produced by nano doping technology would lead to innovative variations in the industry of ICT (Information and Communication Technology). Nevertheless, there are also advantages on operation and public environment as they are used in heating systems.

Advantages and Innovations

With a use of nano doping technology for SiC fibers to have nanostructures, it enables
- High heating efficiency
- Reduction of Carbon Dioxide (CO2) which results in a reduction of contaminated environment
- Applicable control systems, operator, heat exchanger, and cycling systems both on industries and house appliances
- Many heating systems are operated and controlled simultaneously for industrial usage
- For home appliances, the technology enables for consumers to use them more conveniently and efficiently

Stage of Development

Prototype available for demonstration

IPR Status

Patents granted

Profile Origin

Private (in-house) research

Keywords

Technology

02007005	Composite materials
04001002	Heat transport and supply, district heating
04007001	Energy management

Market

02007003	Operating systems and utilities
08002001	Energy management
08002003	Process control equipment and systems

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME 11-49

Year Established

2002

Turnover

20 - 50M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English

Client Country

South Korea

Partner Sought

Type and Role of Partner Sought

The Korean company is looking for SME or large companies as partners to expand their business to international markets. As SiC fibers with nano-structures are facilitated in many types of systems, such as control, cycling systems and heat exchanger. Therefore, desired partners should be able to distribute the goods in the market related to materials under distribution service agreement.

Type of Partnership Considered

Distribution services agreement

Attachments