

The graphic features a stylized globe with a grid of dots and lines, overlaid with the text 'enterprise europe' in a white, lowercase, sans-serif font. The background is a gradient of blue and green.

enterprise europe

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Agencia Andaluza del Conocimiento
CONSEJERÍA DE ECONOMÍA Y CONOCIMIENTO



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Technology Offer

Innovative plant technology for water disinfection based on sodium hypochlorite

Summary

A Serbian company developed an innovative water disinfection plants with dosing systems that are producing sodium hypochlorite solution on place of consumption from common salt. Advantages over existing solutions are elimination of additional transportation, storage and costs. The company seeks industrial partners from Italy, Germany, Bulgaria, Montenegro and Macedonia interested in commercial agreement with technical assistance, licensing and/or joint venture agreement.

Creation Date 07 April 2016
Expiration Date 02 May 2017
Reference TORS20160407001

Details

Description

The innovative company from Serbia, founded in 1989, developed innovative production of water disinfection plants and automatic dosing systems. The first plant was produced in 1996 and since then it has been constantly improved. The company has 27 years of existence in the market and it has 100 plants for water disinfection installed on domestic market. The company is a member of the Vojvodina Metal Cluster.

The company is engaged in engineering, installation and maintenance of on-site automatic systems for disinfection of water. It also provides trainings for workers and remote system monitoring.

The innovative device is made for electrolytic production of chlorine in the form of sodium hypochlorite solution. This innovative technology is made to be used on site in absolutely safe way. Since no gaseous chlorine is present, water chlorination is absolutely safe due to system design. For production of sodium hypochlorite solution it is needed only common salt (instead of industrial salt tablets), softened water and electrical energy. The innovative device for the production of diluted solutions of sodium hypochlorite (the concentration of ~ 1% of equivalent chlorine) at the place of consumption fulfills all requirements of safe devices in accordance with national and international legal regulations from the area of disinfection of water and environmental protection. This innovative plant in addition to standard part for production of sodium hypochlorite also has automatic dosing system, backup system and remote monitoring. Monitoring system allows company to communicate with all the facilities that have been installed and provides information about their work. In case of failure, the backup system automatically turns on and works in order not to compromise the quality of the water until the problem is resolved.

The company is interested in several types of cooperation with partners from Italy, Germany, Bulgaria, Montenegro, and Macedonia:

Commercial agreement with technical assistance – the company is interested in finding partners who are willing to buy this innovative technology. The company will provide all necessary services concerning installation, maintenance and training the client's workers.

Joint venture agreement - this form was chosen for finding partners for joint appearance in the new market. It is possible to joint cooperation where the company would provide its innovative technology / plants for water disinfection, and a partner would be most expected to be familiar with the market and help in finding new clients.

License agreement - the company offers license for its patented innovative technology in return for a fee. The company will provide details of the production, installation, assembly and servicing of the innovative water disinfection plants.

Advantages and Innovations

The novelty in this innovative technology is optimization of plant's design and process parameters which leads to optimize consumption of salt and electrical energy while maximizing the active substance (sodium hypochlorite). Conversion factor is 3:1 (3 kg salt : 1 kg sodium hypochlorite). In this way the innovative technology achieves efficiency and competitive prices.

Advantages are:

- Transportation: sodium hypochlorite produced in company's plant does not need transportation because production is made at the place of consumption (in comparison with existing technologies, such as transportation of gaseous chlorine, which is very dangerous, requires special training of drivers, and the vehicle for the transportation must be escorted, or transportation of commercial sodium hypochlorate, which is safer but still requires specific transport tank with certain characteristics)
- Storage: In this innovative production of sodium hypochlorite it is necessary to store a common salt. The necessary conditions are dry storage place for bags of salt (in comparison with existing technologies, such as storage of gaseous chlorine and commercial sodium hypochlorite, which require special storage conditions, such as specific temperature, tank materials, the intensity of light etc.)
- Costs: annual costs for on site production of sodium hypochlorite (for 2.488.320.000,00 l/year of water flow rate):
1.044,98 € + maintenance (in comparison with existing technologies, such gaseous chlorine disinfection annual costs (for 2.488.320.000,00 l/year of water flow rate):
1.391,04 € + transportation + training + storage + maintenance, or annual costs for commercial sodium hypochlorite disinfection (for 2.488.320.000,00 l/year of water flow rate):
4.379,40 € + transportation + storage + maintenance.

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

Private (in-house) research

Keywords

Technology

02003001	Process automation
03002	Process Plant Engineering
10002013	Clean Production / Green Technologies
10004001	Industrial Water Treatment
10004004	Drinking Water

Market

07003003	Soft drinks and bottling plants
08004003	Water treatment equipment and waste disposal systems
09008002	Water, sewerage, chemical and solid waste treatment plants

NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: the company in the field of water disinfection, swimming pools disinfection, water disinfection of food and drink industry, and other companies who have a need for water disinfection of the use of sodium hypochlorite.

Role: in commercial agreement with technical assistance, it is expected from the partner to buy the innovative product.

In joint Venture Agreement, it is expected from the partner to be familiar with the market and be able to look for project that requires joint apparent on the certain project where water disinfection or sodium hypochlorite solution is needed. It is also needed to find customers for company's innovative technology.

In license agreement, it is expected from the partner to operate according to company's standards and to expand the product to new markets, with obligation to pay compensation.

Type and Size of Partner Sought

SME 11-50, SME <10, SME 51-250

Type of Partnership Considered

- License agreement
- Commercial agreement with technical assistance
- Joint venture agreement

Technology Offer

Innovative steam compressor for waste heat recovery from low grade steam normally ejected from industrial processes

Summary

A UK company has developed a low flow rate steam compressor that enables the capture of steam energy via mechanical vapour recompression at low steam flow rates. The company is seeking suppliers of large thermodynamic systems to help integrate the technology into new systems according to their client's requirements, via commercial agreement with technical assistance.

Creation Date 12 April 2016
Expiration Date 14 April 2017
Reference TOUK20160412001

Details

Description

Conventional turbo compressors have the advantage of oil-free compression which leads to high reliability and low maintenance. However, they cannot operate at the low flow rates optimal for this company's compressors due to the inherent limitations of the technology. For this reason, positive displacement compressors are currently used in these operating ranges but these have the major drawbacks of being expensive and high maintenance.

The UK company's steam compressors are unique because of a new type of impeller at their centre which has an innovative geometry that allows compression at low flow rates.

The compressors bring the benefits of turbo machinery to these low flow rate applications and hence have a competitive advantage by being significantly lower cost and maintenance than current solutions.

Steam compression is not usually a stand-alone process but operates within larger thermodynamic processes. The company anticipates therefore, that future partners would be integrators, including the UK company's products within larger thermodynamic systems to address their client's requirements.

These partners should have working relationships with multiple companies with various thermal system requirements.

They are seeking collaborative relationships to help integrate their compressor technology into new applications, such as automotive and refrigerant systems, for commercial agreements with technical assistance.

Advantages and Innovations

- This product is compact, light-weight, low cost and low maintenance.
- It is a fully enclosed system, with cooling, lubrication and control systems included.
- The company also has a large amount of experience, company know-how and proprietary information, built up over several years operating within the field of high-speed machinery and turbo compressors.

Stage of Development

Available for demonstration

IPR Status

Patents granted

Profile Origin

Other

Keywords

Technology

02003006	Prototypes, trials and pilot schemes
02009012	Automotive engineering
03002	Process Plant Engineering
04008002	Fuels and engine technologies

Market

06006003	Heat recovery
08003007	Other industrial equipment and machinery
09004008	Other manufacturing (not elsewhere classified)

NACE

C.28.9.9	Manufacture of other special-purpose machinery n.e.c.
C.29.3.2	Manufacture of other parts and accessories for motor vehicles

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: Supplier/manufacturer

Specific role of partner sought: Co-integration of novel steam compressor into larger devices for supply to European companies.

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

Instant hot water from the tap

Summary

An SME from Northern Sweden in the area of energy efficiency has developed a patented system that makes hot water tapping more efficient. The technical solution lowers energy and water consumption. It also has an effect on legionella bacteria. The company wants to find partners interested in licensing the technology.

Creation Date	12 April 2016
Expiration Date	18 April 2017
Reference	TOSE20160412001

Details

Description

A startup SME from Northern Sweden in the area of energy efficiency has developed a hot water tapping technology that makes hot water tapping more efficient.

Today, hot water tapping is associated with waste of energy and unnecessary water consumption, as you have to wait for the hot water to reach the tap. The lukewarm water left in the system is also an environment for legionella growth.

The SME's system recovers the energy normally wasted from hot water pipes. The system pulls back the water from the pipe when not required, and momentarily puts it back on the tap when wanted. This increases user comfort as the hot water comes instantly from the tap.

In addition, the system prevents the growth of legionella bacteria in the hot water system.

The company wants expand faster on the European market and is therefore looking for partners interested in taking a license for production.

Advantages and Innovations

When not in use the hot water pipe is empty.

When the tap is turned on the hot water flow is instant.

The system saves water as there is no waiting for the hot water to reach the tap.

The system saves energy that otherwise is wasted from the pipe.

The system prevents growth of legionella bacteria.

The system saves water as there is no waiting time for the water to reach the wanted temperature.

Stage of Development

Field tested/evaluated

IPR Status

Patent(s) applied for but not yet granted, Patents granted

Profile Origin

Other

Keywords

Technology

02006002	Construction methods and equipment
02006004	Installations related to construction (energy, lighting, ...)
03010	Household Goods & Appliances
04007001	Energy management

Market

05007007	Other medical/health related (not elsewhere classified)
06003008	Other alternative energy
06006003	Heat recovery
06007001	Other energy production
07004003	Home furnishing and housewares

NACE

C.25.9.9	Manufacture of other fabricated metal products n.e.c.
E.36.0.0	Water collection, treatment and supply
F.43.2.2	Plumbing, heat and air conditioning installation

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

Manufacturers in the areas of building construction, water installation appliances and plumbing.

- Specific area of activity of the partner:

Kitchen and bathroom installations and plumbing.

- Task to be performed by the partner sought:

To license the technology.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250,>500

Type of Partnership Considered

License agreement

Technology Offer

A full-field X-ray camera for materials characterization in multidisciplinary applications

Summary

An Italian research centre has developed a novel full-field X-ray camera for performing the space-resolved micro-XRF (micro X-ray fluorescence) analysis with high energy and high spatial resolution. The non-destructive X-ray fluorescence micro-analysis has been utilized in a number of scientific disciplines such as: medical science, material science, cultural heritage, environmental science, semiconductors. A partnership is sought for technical cooperation agreement.

Creation Date 22 January 2016
Expiration Date 02 May 2017
Reference TOIT20160122002

Details

Description

Generally micro-XRF measurements are performed by scanning the sample surface with X-ray beam of small dimensions (up to the micrometric scale). In the Italian research centre a fast full-field X-ray camera technology has been developed for performing space-resolved micro-XRF (X-ray Fluorescence) analysis with high energy and high spatial resolution. Recently the technology has been successfully used in different multi-disciplinary applications.

The FF-XRF (Full-Field X-ray Fluorescence) consists of a 70 μm pinhole-collimator coupled to a 13.3 square millimeters CCD (Charge Coupled Device) detector composed of 1024x1024 pixels with a lateral size of 13 μm . The X-ray fluorescence is induced on the samples by using an ancillary X-ray source consisting of a medium-power X-ray tube operating at 40 kV and 1.5 mA and emitting a beam with a large divergence. The pinhole camera was designed in a compact set-up and it can be used in-situ. Possibility of performing the 2D chemical imaging to investigate materials (inorganic and organics chemical species) is one of the leading applications.

The Italian research centre is looking for partners for technical cooperation agreement in order to exploit the technology in the following potential application domains:

- cultural heritage (knowledge, restoration and conservation)
- medical science
- material science
- environmental science
- semiconductors.

Advantages and Innovations

The main advantages of the new camera FF-XRF (Full-Field X-ray Fluorescence) are:

- faster measurements compared to standard technique which requires longer scan time of the sample surface (up to 1-2 days);
- measurements time limited to 1 hour for small samples (of 4x4 square millimeters) and to 4-5

hours for large samples (50x50 square millimeters);
- measurements can be performed in situ.

Stage of Development

Field tested/evaluated

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

02007015	Properties of Materials, Corrosion/Degradation
03003	Apparatus Engineering
09001002	Analyses / Test Facilities and Methods
09001008	Other Non Destructive Testing
09001009	Sensor Technology related to measurements

Market

05007007	Other medical/health related (not elsewhere classified)
08001009	Speciality/performance materials: producers and fabricators
08001010	Semiconductor materials (e.g. silicon wafers)

NACE

S.96.0.9	Other personal service activities n.e.c.
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought is a company which should exploit the technology for adapting the non-destructive technique to material investigation and micro-analysis applications.

Type and Size of Partner Sought

SME <10

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

A novel, low powered, economical and environmentally friendly refrigeration air conditioning unit

Summary

A UK inventor has designed a novel economical refrigerated air conditioning unit that uses ice as the cooling medium, requires minimal power to cool a room, and which is intended for both domestic and industrial use particularly in hot countries. Partners and/or licensees are sought to assist in the development of the invention and its ultimate commercialisation via research cooperation, license or commercial agreement with technical assistance.

Creation Date 19 April 2016
Expiration Date 26 April 2017
Reference TOUK20160415002

Details

Description

Air conditioning units around the world are very inefficient, they require large amounts of energy to keep a space cool, making them expensive to use and a luxury to buy.

However, a UK inventor has designed a novel refrigerated air conditioning unit that requires minimal power to cool a room, has fully automated functionality, low volume fans for quiet operation, and has a slimline form factor for discreet installation.

The new unit, which uses ice as the cooling medium and which can be attached to a domestic freezer, is able to control when and for how long the ice is needed by use of a hand crank. When the ice starts to melt, it is recycled back to the freezer unit for refreezing. Warm air is drawn into the unit where it closely passes around the outside of the ice, then the air passes up the inside of the ice block where it is blown into the room.

By using a column of ice the multi-economical air conditioner could offer increased efficiency using cooling technology principles usually only seen in large commercial buildings. This effectively creates a "storage cooler" that requires minimal power to cool a room.

The new invention is intended for both domestic and industrial use, particularly in hot countries, and can be applied for use in domestic rooms, offices, schools, shops and even industrial premises.

The inventor is seeking potential partners and/or licensees to assist in the development of the invention and its ultimate commercialisation via research cooperation, license or commercial agreement with technical assistance.

Advantages and Innovations

Advantages and innovations include:

- Potentially reduced operational power requirements when compared to conventional air conditioning units;
- Fully automated functionality,
- Low volume fans for quiet operation
- Slimline form factor allowing for discreet installation;
- Can be attached to a domestic freezer;
- Suitable for both domestic and industrial use.

Stage of Development

Concept stage

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

Private (in-house) research

Keywords

Technology

02006004	Installations related to construction (energy, lighting, ...)
03003	Apparatus Engineering
03010	Household Goods & Appliances
04002006	Heat exchangers
04002008	Cooling technologies

Market

07004004	Housewares
07004008	Other consumer products
08003007	Other industrial equipment and machinery
08005	Other Industrial Products (not elsewhere classified)

NACE

D.35.3.0	Steam and air conditioning supply
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type/field of activity of partner: Industry - producer of industrial and domestic air conditioning equipment.

Role of partner: Potential partner should help further develop the product through research cooperation agreements, and/or commercialise the product and bring it to market by licensing the technology or via commercial agreement with technical assistance.

Type and Size of Partner Sought

SME 11-50, SME <10,251-500, SME 51-250

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance
Research cooperation agreement

Technology Offer

Ambient air and surface disinfection through customised highly efficient UV light units and systems applicable in domestic and commercial buildings, in hospitals as well as in medical production, food processing and animal breeding facilities

Summary

For disinfection of ambient air and surfaces a German company developed customisable UV light treatment systems. Where conventional methods are not applicable, the proposed systems eliminate reliably bacteria, viruses, spores and germs e.g. in laboratories, hospitals, dairy/meat production or fruit processing plants etc. Company seeks partners from HVAC (Heating, Ventilation, Air Conditioning) or direct requests from potential application sectors for commercial agreements with tech. assistance.

Creation Date 14 April 2016
Expiration Date 18 April 2017
Reference TODE20160413002

Details

Description

UV radiation eliminates quickly, safe and very reliably bacteria, viruses, spores and germs from ambient air but also from surfaces, where special hygienic conditions are required. Conventional disinfection methods are often not applicable, because microorganisms are floating freely in the air.

Ventilation, air conditioning and heating systems are very suitable for integrating UV light air treatment units, because the circulating contaminated air frequently passes the UV radiation unit inside the ventilation duct. This continuous air disinfection provides an overall high air quality and adequate protection against airborne pathogens. Without generating any harmful by-products UV light represents an effective, environmentally friendly as well as cost and energy efficient treatment method for many applications e.g. laboratories, hospitals, dairy and meat production plants, animal breeding plants, fruit processing such as juice, wine or beer production, bakeries, cooling devices and air conditioning units, UV radiation barrier between rooms etc.

Regarding surface disinfection specific UV treatment devices provide sterility in containers e.g. bottles, cans, barrels, jars, etc., but also on production facilities such as laboratory work places, conveyor belts, holding devices, working surfaces or packaging.

In addition UV light treatment bears non risk of emerging pathogen resistance.

Based on these characteristics and advantages a German company has developed an innovative, very flexible and customisable range of UV light treatment devices and units for the highly effective, chemical-free disinfection of ambient air and various surfaces with high hygienic

requirements.

According to the specific application, the necessary treatment capacity and to the technical requirements on-site, the UV treatment units can be adapted in terms of design, dimension and performance.

Every individual UV treatment unit, but also every DUAL or MULTI system can be additionally equipped with functions for monitoring operating hours and/or UVC intensity.

The company is DIN ISO 9001 certified.

The company is looking for partners for commercial agreements with technical assistance e.g. engineering companies in the HVAC sector (Heating, Ventilation and Air Conditioning) or technical building service providers, but also directly from the above mentioned application sectors. The aim is to develop customised UV treatment units and systems for specific applications and integrating them into new or existing ventilation, air conditioning or heating systems. The envisaged cooperation includes product design and adaptation, on-site installation, technical assistance and advice as well as maintenance services.

Advantages and Innovations

Various conventional disinfection methods e.g. chlorination are not applicable to air or surface disinfection. UV radiation treatment represents an effective environmentally friendly solution, because it eliminates reliably bacteria, viruses, spores and germs without generating any harmful by-products and without the need of chemicals or other agents.

UV disinfection units can be adapted and integrated into ventilation systems of rooms and buildings. In this way they provide continuous air disinfection and low contamination levels based on the permanent air circulation through the UV-fitted ventilation systems.

Compared to other disinfection methods UV light treatment carries non risk of emerging pathogen resistance.

Various power connection options allow operation everywhere in the world and autarkic applications in remote areas e.g. third countries. Power supply is possible through mains connection, car socket or through photovoltaik units.

Stage of Development

Already on the market

IPR Status

Trade Marks

Profile Origin

Private (in-house) research

Keywords

Technology

03001001	Cleaning Technology
03004011	Care, Hygiene, Beauty
08001003	Food Packaging / Handling
10002001	Indoor Air Pollution/Treatment
10002013	Clean Production / Green Technologies

Market

05004003	Laboratory equipment
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05009003	Animal health
08003002	Hoists, cranes and conveyors
08004001	Air filters and air purification and monitoring equipment

NACE

C.32.9.9	Other manufacturing n.e.c.
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for partners for commercial agreements with technical assistance e.g. engineering companies in the HVAC sector (Heating, Ventilation and Air Conditioning) or technical building service providers, but also from other potential application sectors. The aim is to develop customised UV treatment units and systems for specific applications and integrating them into new or existing ventilation, air conditioning or heating systems. The envisaged cooperation includes product design and adaptation, on-site installation, technical assistance and advice as well as maintenance services.

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Offer

Customised UV (ultraviolet) irradiation water disinfection units and components for centralised or remote off-grid / large or small scale applications, stand-alone or complementary to other water treatment systems

Summary

A German company develops customised UV light treatment units and components for highly effective chemical-free disinfection of water by eliminating reliably bacteria, viruses, spores and germs. Unique, protected features and modular concepts allow easy assembly/handling, low operational/maintenance costs and adaptation to a wide range of applications. Company seeks water treatment engineering companies, plant operators or requests from potential application sectors for commercial agreements.

Creation Date 14 April 2016
Expiration Date 18 April 2017
Reference TODE20160413001

Details

Description

Although UV light is the oldest natural disinfection method, nowadays there are still misconceptions regarding its use in water treatment applications. UV radiation eliminates quickly, safe and very reliably bacteria, viruses, spores and germs without negative effects on the smell or the taste of the treated water and without generating any harmful by-products. UV treatment can replace or complement very effectively other treatment methods e.g. chlorination or physical treatment methods.

Based on these characteristics and advantages a German company has developed an innovative, very flexible and customisable range of UV light treatment devices and units for the highly effective, chemical-free disinfection of water. A unique, protected design of the casing and a modular concept allow safe and easy assembly and handling, low operational and maintenance costs as well as tailored design and dimension for specific applications.

The individual UV light devices are made of electro polished stainless steel, duly licensed for drinking water, designed for a 400 J/m² radiation dose, thus meeting drinking water regulations and ensuring a disinfection rate of 99,99% if the specified flow rate is maintained. The devices are provided ready for plug-in, with a poled connecting cable.

The company is DIN ISO 9001 certified.

Technical details:

According to the specific application, the necessary treatment capacity and the technical requirements on-site the UV treatment units can be adapted in terms of design, dimension, performance and electricity connection.

Single UV units with flow rates of 300l/h up to 2,5m³/h of drinking water can be connected to DUAL systems, thus increasing the flow rate from 2m³/h up to 42m³/h, depends on the electrical power supply.

For industrial scale applications of flow rates from 12-40 m³/h of drinking water (or up to 168m³/h for other domestic use e.g. pool water) MULTI systems of up to 8 single units can be parallel or serial connected and controlled via an electric control cabinet.

Electronic ballasts with high voltage tolerance (110-240 V AC 50/60 Hz) are used for varying power supply systems. Therefore the UV treatment units are applicable everywhere in the world.

Every individual UV treatment unit, but also every DUAL or MULTI system can be additionally equipped with functions for monitoring operating hours and/or UVC intensity.

Applications:

The proposed UV light units are widely applicable: disinfection/preparation of drinking water at small scale (household) but also at industrial/municipal scale, ultra-pure water for pharmaceutical production and chemical analysis, warm water treatment > 45 °C/ Legionella prevention, treatment of swimming pool water complementary to filtering and chemical treatment thus reducing the use of chemicals by up to 70%, sewage water treatment, process/cooling water, cooling/lubricating emulsions, fuel, disinfection of tanks, water dispensers, fish ponds, Aquariums.

The company also offers special customised compact units for mobile autarkic applications in remote areas without central water or power supply, e.g. excursions, caravan & camping or drinking water supply in third world countries. The so called "Tropics Box" is operating at 12 V DC. The build-in accumulator supplies the UV device as well as the water pump with power, while an integrated regulator controls the recharging of the accumulator.

The recharging can be realised via connecting cable to a photovoltaic system, but also via a car socket or a mains adapter operating from 100-240 V AC.

The company seeks partners for commercial agreements with technical assistance e.g. engineering companies in the water treatment sector or water treatment plant operators, but also enquiries from the above mentioned application sectors. The envisaged cooperation includes product design and adaptation, on-site installation, technical assistance and advice as well as maintenance services.

Advantages and Innovations

- environmentally friendly alternative to other water disinfection methods e.g. chlorination, because it doesn't need any chemicals and generates no harmful by-products
- no negative effects on the smell, the colour or the taste of the treated water compared to chlorination
- no skin contact with the disinfecting active agent - no skin irritation or other health risks through the treated water
- more energy efficient and technically less demanding than ozone treatment
- easy assembly, handling and maintenance of the UV treatment units based on a unique protected design of the casing
- application anywhere in the world due to various options for power connection/supply
- additional compact units for autarkic applications in remote areas without central water or power supply (e.g. excursions, caravan & camping or drinking water supply in third world countries) with power supply options via photovoltaic system, car socket or a mains adapter
- very efficient stand-alone solution for the disinfection of water, but also very suitable to complement other mechanical, physical or chemical methods

Stage of Development

Already on the market

IPR Status

Trade Marks

Profile Origin

Private (in-house) research

Keywords

Technology

03001001	Cleaning Technology
10004001	Industrial Water Treatment
10004002	Municipal Water Treatment
10004003	Wastewater Recycling
10004004	Drinking Water

Market

05009002	Fish health
05009004	Plant health
07001002	Amusement and recreational facilities
08004003	Water treatment equipment and waste disposal systems
09008002	Water, sewerage, chemical and solid waste treatment plants

NACE

E.36.0.0	Water collection, treatment and supply
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Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for engineering companies in the water treatment sector or water treatment plant operators in the field of drinking water, swimming pool maintenance, aquariums, ultra-pure water for pharmaceutical applications, etc.

Potential partners are expected to integrate the UV light disinfection units into new or existing water treatment systems.

The technology proposer seeks commercial agreements and provides customised development and adaptation to the particular needs, technical implementation and assistance as well as after service and maintenance

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Request

Construction of a production line for a wood panel system

Summary

An Italian company wants to invest in an automated production line for a new wood panel system. The needed automated working step is initially to mill slats. The company owns a patent of the specific wood panel with the advantage of not using any adhesive and is seeking for partners with expert knowledge of automation solutions for industrial wood processes and able to develop and produce a very precisely and efficiently machine.

Creation Date 12 April 2016
Expiration Date 15 April 2017
Reference TRIT20160412001

Details

Description

The Italian company invented a new wood panel system with the advantage of not using any adhesives. The method has been internationally patented.
The solid wood wall is assembled by individual solid wood slats which have a length of up to 3 m. The needed automated working step is to mill 7- 8 times the slats. The milling must be done very precisely and made in one working step.
The company is looking for partners to develop and implement the needed automated process. Expert know-how in automated industrial wood processes is highly preferred.
The possible cooperation preferably should include the two steps developing and manufacturing of the first production line (more production lines are planned for the future).

Technical Specification or Expertise Sought

Partners with expert knowledge of automation solutions for industrial wood processes. The company requests references.

IPR Status

Patents granted

Keywords

Technology

02002009 Machine Tools
02002011 Machining, fine (grinding, lapping)

02004 Plant Design and Maintenance
03002 Process Plant Engineering

Market

08002007 Other industrial automation
08003001 Machine tools, other metal working equipment (excl. numeric control)

NACE

F.41.2.0 Construction of residential and non-residential buildings

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partners should have know-how in automated industrial wood processes and preferably bring both capabilities: developing and manufacturing of the corresponding machine.

Type and Size of Partner Sought

SME 11-50, SME <10,>500 MNE, 251-500, SME 51-250,>500

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Super-cooling technology for domestic refrigerator/freezer

Summary

A multinational partner company of a Hungarian Technology Transfer company seeks partners to develop novel cooling technologies or modules to enable super-cooling of food to temperatures of -1 to -5C. The technologies will be used in domestic refrigeration systems to lengthen the preservation time of foods. The company therefore seeks partners with fully developed technology for licensing the technology or partners who have working prototype for collaboration in joint development.

Creation Date 21 April 2016
Expiration Date 02 May 2017
Reference TRHU20160421001

Details

Description

In conventional freezing of foods, the rupturing of cells caused by expansion of ice crystals can result in water loss when the product is thawed. Storage of products within a freezer can also result in freezer burn. Super-cooling is the cooling of a liquid below its freezing point without it becoming solid. Super-cooling may provide benefits in domestic refrigeration systems to provide longer term food preservation without loss of quality when the food is thawed.

A multinational partner company of a Hungarian Technology Transfer company invites proposals from companies (large or small and medium enterprises), inventors or researchers with concept or prototype solutions that allow super-cooling within a refrigerator.

Possible approaches could be based on precision controlled cooling technologies, novel modules for super-cooling, usage of new materials and the adaptation of super-cooling systems from medical technology sector.

Approaches that cannot be accommodated within the standard dimension of refrigerators, or that adversely impact food preservation quality such as taste, colour or spoilage are not of interest.

The company seeks fully developed technologies in this field with the aim of licensing the chosen technology or technologies with working prototype that can lead to joint development cooperation that will end up in manufacturing the product.

Technical Specification or Expertise Sought

The end product should:

- Deliver super-cooling of food such as meat and fish to temperatures of between -1 to -5C

- Deliver even cooling of products with typical weight of 50-500g and thicknesses of 1-5cm
- Reduce the water loss of the product after thawing by at least 20% compared to standard fast freezing technologies.
- Be made from materials considered food grade and able to be in contact with foodstuffs

Keywords

Technology

03010	Household Goods & Appliances
08001003	Food Packaging / Handling
08001005	Food Technology
08002003	Safe production methods

Market

07003002	Health food
07004004	Housewares

NACE

M.74.9.0	Other professional, scientific and technical activities n.e.c.
N.82.9.9	Other business support service activities n.e.c.

Network Contact

Issuing Partner

AGENCIA ANDALUZA DEL CONOCIMIENTO

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

It is preferred to work with partners that have existing technologies or approaches that can be applied to this specific application. Technological solutions are welcome either from companies (large or small and medium enterprises), either from inventors or researchers.

Partnering Opportunity

Collaboration can involve technology licensing, product sourcing, proof of concept leading to joint development agreements and assistance with scale-up to manufacturing. Preference will be given to technologies or approaches that currently have working prototypes that can undergo feasibility, validation or proof of concept over a 3-6 month period.

Type of Partnership Considered

License agreement
Research cooperation agreement

Textil y Calzado

Technology Request

Scottish designer seeking innovative textiles

Summary

A Scottish SME specialising in design has developed an innovative, yet simple, accessory - a form of scarf which can be worn in multiple ways throughout the life of the user. She is keen to collaborate, through a technical co-operation agreement or a commercial agreement with technical assistance, with academic or industry partners specialising in textile design, to identify innovative textiles and fabrics which would be suitable for manufacturing this particular design for a variety of uses.

Creation Date 20 April 2016
Expiration Date 25 April 2017
Reference TRUK20160420001

Details

Description

An SME based in Scotland and specialising in graphic design and design solutions has developed the design for a simple garment which can be worn in a number of different ways , adapting to different uses at different stages in a person's life. It is basically a uniquely designed scarf which can be adapted as a garment for business wear, outdoor activities, beach and spa use, pregnancy and breast feeding and for occasions such as weddings.

The designer is seeking collaborative partners with whom she could work to identify, develop and test the most appropriate types of fabrics and textiles from which the garment could be manufactured, bearing in mind the range of uses and the desire for the product to potentially last the lifetime of the user.

She is seeking academic or industry partners who specialise in textiles or fabric design and with whom she can work to identify, develop or test suitable fabrics through a technical co-operation agreement or a commercial agreement with technical assistance.

Technical Specification or Expertise Sought

The business is seeking academic or industrial partners who specialise in designing or developing textiles or fabrics and who can work with the designer to identify and test the most appropriate fabrics with which to develop the product.

The range of use and nature of the product would require fabrics which are hard wearing and which may have waterproof or other technical properties.

Keywords

Technology

03005004	Finisher related to Textiles Technology
03005007	Textile fibres
03005009	Woven technical textiles for industrial applications

Market

07006	Other Consumer Related (not elsewhere classified)
09004003	Textiles (synthetic and natural)

NACE

C.13.9.1	Manufacture of knitted and crocheted fabrics
C.13.9.6	Manufacture of other technical and industrial textiles
C.14.1.9	Manufacture of other wearing apparel and accessories

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Academic or industry partners who are involved in the design and development of innovative fabrics and who will work with the designer to identify, develop and test the most appropriate fabrics from which to manufacture the product.

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

0W2A9292.jpg



0W2A9258.jpg



OW2A9339.jpg



Medidas y Normas

Technology Offer

Device for generating mechanical waves in solid materials

Summary

A team of Romanian researchers has developed a device for generating non-destructive mechanical waves in solid materials. The corresponding manufacturing technology is also available. Industrial, academic and/or research partners are sought for further development and technological transfer, on the basis of research and technical cooperation agreements. The Romanian team from the institute is also offering services agreement.

Creation Date	21 March 2016
Expiration Date	04 May 2017
Reference	TORO20160208001

Details

Description

The device for generating mechanical waves in solid materials without destroying the material through the generation of mechanical waves in materials represents the result of the research and sustained work of a Romanian research team.

Until now, there have not been developed any other similar solutions.

The non-destructive device for generating mechanical waves in solid materials is intended for use in applications related to materials' science, non-destructive materials control, defective materials, measurement of the non-destructive thickness of structures and elements of different materials (especially non-metallic with inhomogeneous structure, composites, etc.), by generating mechanical waves in materials, so the partner sought should be active in one of these fields, whether they are industrial partners, or if they are universities or institutes.

The device for generating mechanical waves in solid materials consists of:

- A sandwich-type piezoelectric transmitter transducer that consists of a piezoceramic disk and a metal cylinder type attenuator; the piezoelectric transducer converts electrical signals into mechanical waves that propagate through the studied material, which may be raised by a sensor located in different positions on its surface;
- A generator card on which there was installed an electronic circuit for generating pulses of high voltage, controlled by low voltage pulses; the card is powered by an adjustable stabilized source of high voltage, a low voltage stabilized source, which is protected by a radiofrequency filter for screening device and protection of the stabilized source by stray signals generated at the production of high voltage pulses by the high voltage chopper circuit, controlled from the exterior at the entry of the low voltage pulses;
- A cylindrical metal housing, aimed for protection;
- 2 metal caps, out of which one is attached both to a piezoceramic disk and to an output connector that provides connections to power and ground conductors.

The novelty that this device brings is that it generates high frequency mechanical waves in particular non-metallic materials with heterogeneous structure, composites, etc. The device operates at a maximum operating frequency of 100 kHz, providing increased penetration depth

of the mechanical waves in the studied material and avoiding their relaxation in inhomogeneous structure.

As the applications of the device for generating mechanical waves in solid materials are mainly in the materials science, non-destructive control and material defects, non-destructive thickness measurement of structures and elements of various materials, the Romanian R&D institute is looking for foreign industry, academic, and/or research organisations interested in technology transfer or for research cooperation agreements. The Romanian R&D institute is also offering services agreement.

Advantages and Innovations

The device:

- is robust and useful for non-destructive testing of non-metallic materials, porous, etc.;
 - generates high accuracy voltage pulses, which are converted into mechanical waves that are transmitted in the solid material;
 - allows easy adjustment of the pulse frequency applied at the entrance in the solid material and high voltage pulse amplitude at its exit, so as to achieve an electro acoustic optimum efficiency.
- The mechanical waves generated in the studied material are function of the parameters that are initially set, such as: material type (non-metallic, composite), structure and composition, coefficient of attenuation and material thickness.

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted, Copyright

Keywords

Technology

01002003	Electronic engineering
02006001	Materials, components and systems for construction
02006002	Construction methods and equipment
05003001	Vibration and Acoustic engineering
09001001	Acoustic Technology related to measurements

Market

03001007	Circuit boards
03003	Power Supplies
08003007	Other industrial equipment and machinery

NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The type of the partner sought: industry, academic and/or research organisation. These partners should be active in the field of materials' science, non-destructive materials control, defective materials, measurement of the non-destructive thickness of structures.

The task to be performed by the industrial partner sought: further development in joint cooperation with academia and the research team as well as technological transfer, with specific technological services received from the Romanian research team.

The task to be performed by the academic and/or research organization: further development of the device, together with the Romanian research team and industrial partner, within the research cooperation agreement.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME 51-250

Type of Partnership Considered

Services agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

A full-field X-ray camera for materials characterization in multidisciplinary applications

Summary

An Italian research centre has developed a novel full-field X-ray camera for performing the space-resolved micro-XRF (micro X-ray fluorescence) analysis with high energy and high spatial resolution. The non-destructive X-ray fluorescence micro-analysis has been utilized in a number of scientific disciplines such as: medical science, material science, cultural heritage, environmental science, semiconductors. A partnership is sought for technical cooperation agreement.

Creation Date	22 January 2016
Expiration Date	02 May 2017
Reference	TOIT20160122002

Details

Description

Generally micro-XRF measurements are performed by scanning the sample surface with X-ray beam of small dimensions (up to the micrometric scale). In the Italian research centre a fast full-field X-ray camera technology has been developed for performing space-resolved micro-XRF (X-ray Fluorescence) analysis with high energy and high spatial resolution. Recently the technology has been successfully used in different multi-disciplinary applications.

The FF-XRF (Full-Field X-ray Fluorescence) consists of a 70 μm pinhole-collimator coupled to a 13.3 square millimeters CCD (Charge Coupled Device) detector composed of 1024x1024 pixels with a lateral size of 13 μm . The X-ray fluorescence is induced on the samples by using an ancillary X-ray source consisting of a medium-power X-ray tube operating at 40 kV and 1.5 mA and emitting a beam with a large divergence. The pinhole camera was designed in a compact set-up and it can be used in-situ. Possibility of performing the 2D chemical imaging to investigate materials (inorganic and organics chemical species) is one of the leading applications.

The Italian research centre is looking for partners for technical cooperation agreement in order to exploit the technology in the following potential application domains:

- cultural heritage (knowledge, restoration and conservation)
- medical science
- material science
- environmental science
- semiconductors.

Advantages and Innovations

The main advantages of the new camera FF-XRF (Full-Field X-ray Fluorescence) are:

- faster measurements compared to standard technique which requires longer scan time of the sample surface (up to 1-2 days);
- measurements time limited to 1 hour for small samples (of 4x4 square millimeters) and to 4-5

hours for large samples (50x50 square millimeters);
- measurements can be performed in situ.

Stage of Development

Field tested/evaluated

IPR Status

Secret Know-how

Keywords

Technology

02007015	Properties of Materials, Corrosion/Degradation
03003	Apparatus Engineering
09001002	Analyses / Test Facilities and Methods
09001008	Other Non Destructive Testing
09001009	Sensor Technology related to measurements

Market

05007007	Other medical/health related (not elsewhere classified)
08001009	Speciality/performance materials: producers and fabricators
08001010	Semiconductor materials (e.g. silicon wafers)

NACE

S.96.0.9	Other personal service activities n.e.c.
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought is a company which should exploit the technology for adapting the non-destructive technique to material investigation and micro-analysis applications.

Type and Size of Partner Sought

SME <10

Type of Partnership Considered

Technical cooperation agreement

Technology Offer

Novel method for non-destructive determination of mechanical material properties

Summary

A team of German scientists developed a method and device for a non-destructive determination of mechanical properties of materials. A Cooperation with industrial partners is sought in the frame of a research cooperation agreement or on the basis of a license agreement.

Creation Date 21 March 2016
Expiration Date 26 April 2017
Reference TODE20160314001

Details

Description

The non-contact determination of deformation and flow properties of materials is a technological challenge and thus represents an important field of study in material engineering. At present, no satisfactory solution is available.

The rheometry offers the possibility to characterize materials concerning their different loads (e.g. shear deformation, tensile deformation and bending deformation). These rheological properties are determined by applying mechanical stress which largely causes destruction of the probed component. In addition, it is a time consuming measurement which requires the preparation of specimens. The practical implementation of rheological investigations is therefore complicated and for industrial uses not economical.

The offered innovation presents a method that addresses the aforementioned thematic and is suitable for the investigation of a variety of elastic and viscoelastic materials as well as glasses and liquids. It is using the acoustically induced laser scattering method (ALS) that avoids these disadvantages by applying the principle of the acousto-optical modulation. By an appropriate arrangement of an ultra-sonic source a sonic grid diffracting laser light is generated in the material. By exclusively using the diffraction peak of the laser light in a test object the invention enables new possibilities of non-invasive determination of relevant rheological and other mechanical properties. With this method a non-destructive measurement with little technical effort and very short measuring times gets possible. Especially it is suitable for in situ measurements in contrast to conventional rheometers.

Thus, the invention has a big market potential in the fields of materials science, materials testing, material engineering and quality assurance.

To make the developed method and device fit for practical applications the scientists are now looking for industrial partners interested in a common further development on the basis of a research cooperation agreement or in a license agreement.

Advantages and Innovations

- Non-destructive determination of rheological and mechanical material properties
- In situ measurement with shorter measurement periods and lower preparative effort as compared with the state of the art

Stage of Development

Concept stage

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

02007015	Properties of Materials, Corrosion/Degradation
05003002	Optics
06001005	Diagnostics, Diagnosis
09001006	Optical material testing
09001007	Optical Technology related to measurements

Market

03005	Laser Related
03007002	Other measuring devices
05001001	Diagnostic services
05005002	Ophthalmology, ear, nose and throat diseases

NACE

M.72.1.9	Other research and experimental development on natural sciences and engineering
M.72.2.0	Research and experimental development on social sciences and humanities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:
- Industry

Specific area of activity of the partner:

- Measurement technology
- Material testing
- Medical technology

Task to be performed:

- R&D cooperation in order to commercialize the technology

Type and Size of Partner Sought

SME 11-50, SME <10,>500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

License agreement
Research cooperation agreement

Technology Offer

Partial- and microgravity simulation through random positioning

Summary

A Dutch independent establishment of an international company offers microgravity research. They do this with a self-developed Random Positioning Machine (RPM), which provides microgravity by continuously changing the orientation. This generates effects similar to the effects of true microgravity (space). The company is looking for research and development companies in life sciences, astrobiology and regenerative medicine for commercial agreements with technical assistance.

Creation Date 05 April 2016
Expiration Date 18 April 2017
Reference TONL20160330001

Details

Description

The Random Positioning Machine (RPM) of the Dutch company simulates micro-gravity. A sample container, which is connected to two independent axes, is rotated by the machine with random speeds in all directions. Due to the random motion, the sample experiences gravity from every direction. Thus, after some time the average of the gravity affecting the sample goes to zero. In this way, the RPM simulates microgravity for objects inside its container. This is sometimes also referred to as 3D clinostat.

Thanks to its versatility and quality the RPM is invaluable for research and development in many different fields, such as:

- Life science, cell biology and microbiology
- Astrobiology and planetary research
- Regenerative medicine, tissue engineering and stem cell research

Partial gravity

The RPM simulates 'partial gravity'. This provides all gravity levels from 0g up to 0.9g. Partial gravity is achieved by changing the random motion pattern in such a way that on average the sample experiences some influence of Earth's gravity. It is used for simulating e.g. the 0.38g Mars' gravity or 0.17g Moon's gravity, but also for determining e.g. the gravity level at which organisms or cells change behaviour.

Life science, cell- and microbiology

Gravity has many important effects on cells and introducing microgravity allows new cell-, micro- and mechanobiology research. For example, microgravity leads to different intra- and inter-cell communication, changes in genetic expression, cell growth and shape, gravitropism and mechanosensitivity effects, etc.

Regenerative medicine, tissue engineering and stem cell research

Recently published papers describe the use of RPM for regenerative medicine and 3D tissue engineering / cell culturing. For example, research has shown that microgravity can be used to reduce differentiation of stem cells.

Astrobiology and planetary research

The partial gravity feature (0g – 0.9g) of the RPM is also very useful for astrobiology research. It is used to research organisms survival, development, behaviour etc. in extra-terrestrial environments such as the 0.38g Mars' gravity and 0.17g Moon's gravity. Furthermore, the instrument is involved in different control, pre- and post-experiments for the International Space Station (ISS). For example, microbiology is researched with the RPM since bacterial virulence and growth rate increase in microgravity.

The company is looking for research and development companies in life sciences, cell- and microbiology, astrobiology, regenerative medicine, tissue engineering, stem cell research, astrobiology and planetary research within the frame of commercial agreements with technical assistance.

Advantages and Innovations

In comparison to prevailing techniques the Random Positioning Machine (RPM) enables micro- and partial gravity research for scientific, educational and industrial applications where experiments require a long-duration exposure to microgravity (hours, days, weeks).

Advantages of the RPM are:

- Unique and proven path algorithms with protection against pole bias.
- Advanced on-the-fly control and monitoring of experiments using fully integrated power and communication interfaces.
- Compact design to support experiments in incubator and radiation facilities.

The RPM provides a platform for mounting the experiment package, which is adjustable in height. The system is designed to operate inside an incubator for control of temperature, CO₂ and relative humidity (non-condensing). Hardware and software are included to operate the RPM and to monitor its parameters, such as average g-level.

The RPM is a proven asset and valued by the scientific community as a simulation platform for micro- and partial gravity experiments. Moreover, the RPM is used for preparation and post-analysis of experiments that fly on the International Space Station.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Copyright

Keywords

Technology

02011005

Space Exploration and Technology

09001002

Analyses / Test Facilities and Methods

Market

04010	Microbiology
04013	Stem cells and biobanks
04017	Micro- and Nanotechnology related to Biological sciences
05004003	Laboratory equipment

NACE

C.26.5.1	Manufacture of instruments and appliances for measuring, testing and navigation
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:
Universities, (R&D) companies, institutes, hospitals, agencies.

Specific field:

Partner sought in one or more of the following research fields:

- Life science, cell biology or microbiology.
- Astrobiology or planetary research.
- Regenerative medicine, tissue engineering or stem cell research.

Role of partner:

Performs research and/or development in one of the above mentioned fields and is interested in exploring and applying the benefits of microgravity by using the Random Positioning Machine.

Type and Size of Partner Sought

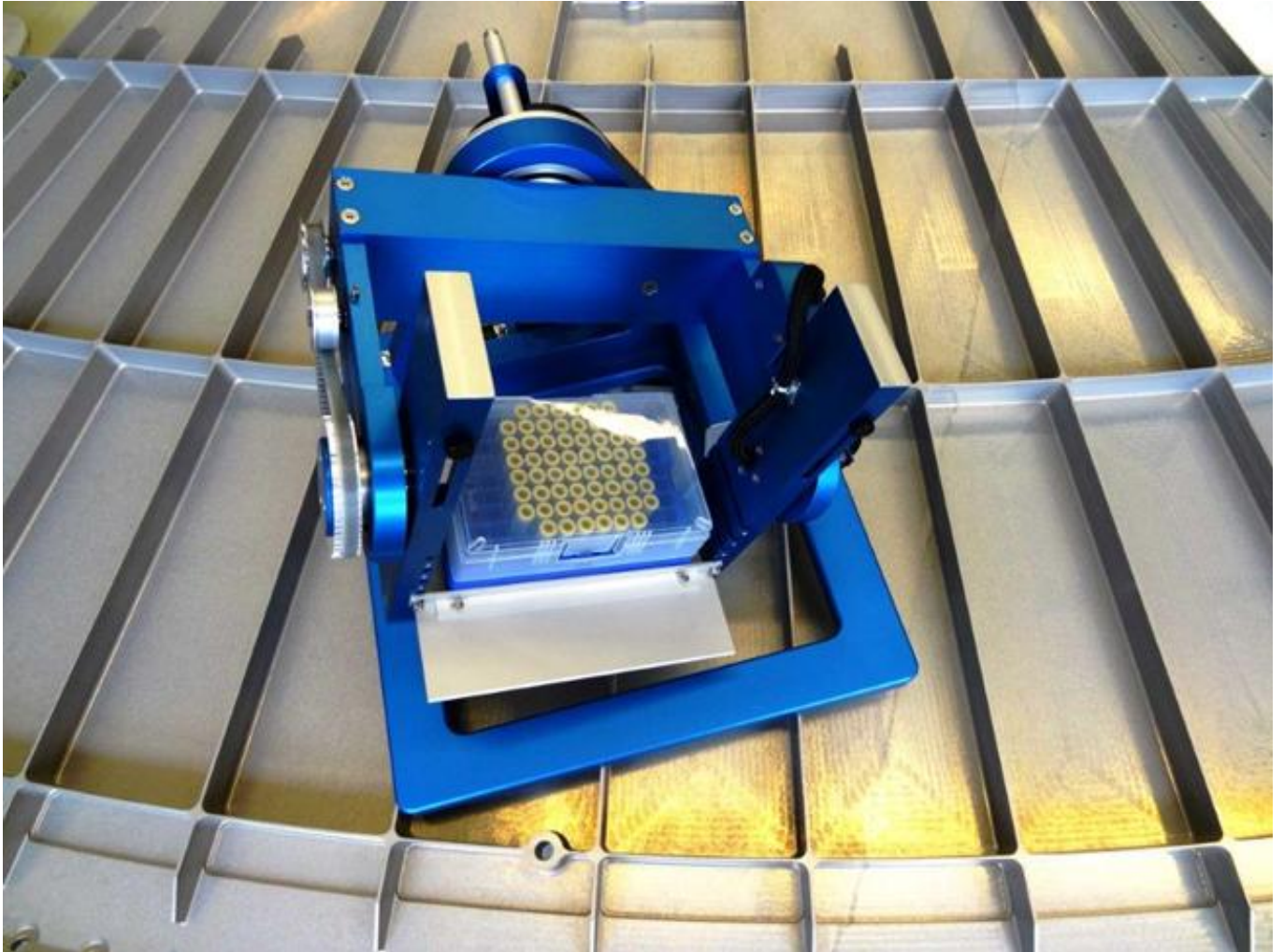
SME 11-50, University, Inventor, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments

RPM.jpg



Technology Offer

Hard- software platform for advanced verification of critical control systems

Summary

A Dutch independent establishment of an international concern offers an advanced simulation and verification platform for development of critical hardware/software control systems. By using simulation of (sub)systems and environments with test techniques, highly reliable systems are realized cost and time efficiently. The company aims at technical cooperation agreements and commercial agreements with technical assistance, with industrial partners that develop critical (control) equipment.

Creation Date 30 March 2016
Expiration Date 15 April 2017
Reference TONL20151013001

Details

Description

The Dutch company is an independent establishment of an international aerospace concern. The company is active in many engineering areas that are required for the development, verification and operation of highly reliable space systems.

In order to achieve high reliability of control systems in harsh environments, a high degree of equipment and environment simulation is required. Throughout the entire development cycle of these systems simulation plays an important role. With this approach the overall cost and time-to-market are reduced.

Simulations can be applied throughout many project phases, i.e. concept analysis, development, test, operations, etc. For example, during system development, hardware-in-the-loop simulations are applied in which actual real sub-systems interface with emulated/simulated hardware. Project-specific software models are integrated with the simulation software and represent components such as sensors, actuators, board computers or environmental physics.

During test and operation phases, operator-in-the-loop simulations, in which operators are trained by using 2D and/or 3D visualisations and virtual or real entities, are common. For example, virtual reality techniques are used to increase situation awareness for operators. Similarly, operators are trained using simulated environments and interact with virtual or real entities.

The various simulation and verification configurations can be built by using the platform, which provides scalable electrical front-end interfaces and real-time simulation of hardware and environment models. Front-end interfacing modules are available, which are flexible, scalable and reusable across various projects. Failure injection allows for controlled simulation of exceptional and extreme scenarios.

The company offers technical expertise, software and hardware products that support the development of critical hardware/software control systems. The company is looking for industrial partners, universities and R&D institutes within the frame of technical cooperation agreements or commercial agreements with technical assistance.

Advantages and Innovations

In comparison to prevailing techniques the offered advanced verification and simulation platform enables hard real-time behaviour using off-the-shelf components and own developments.

The platform components include: hardware computers, opensource operating system, Ethernet communication, data acquisition components, etc. Compared to other solutions, this innovative approach allows for faster development and thus reduced cost / time-to-market. This is achieved by using standard computers and operating systems components in the platform, allowing the developer to make use of much more existing software while also giving a higher degree of openness. Furthermore, the off-the-shelf modular hardware interfaces reduce cost and increase reliability, while still allowing specific extensions where desired.

The advanced simulation and verification platform offers the following advantages:

- Supports simulation and verification during all development phases: software-in-the-loop, hardware-in-the-loop, operator-in-the-loop.
- Can be customized and extended: add your own blocks or let them be developed for you.
- Allows incremental definition: add blocks as you go, giving you flexibility.
- Enables reuse between project phases and different projects: reconfigure/rearrange blocks as you need, saving you time and effort.
- Proven solutions from expert team: long standing support guaranteed, giving you certainty.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Copyright

Keywords

Technology

01002004	Embedded Systems and Real Time Systems
01003016	Simulation
09001002	Analyses / Test Facilities and Methods

Market

02007006	Other system software
02007014	Other industry specific software
02007015	Integrated software
08002004	Robotics
08002006	Numeric and computerised control of machine tools

NACE

C.26.5.1

Manufacture of instruments and appliances for measuring, testing and navigation

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: companies, university or R&D institute.

Specific area of activity of the partner: development of critical equipment in applications where reliability is key. This can be autonomous vehicles (e.g. unmanned aerial vehicles), remotely operated systems (e.g. remotely operated vehicles), medical (embedded) systems, critical machine control, safety products, etc.

Task to be performed by the partner sought: articulate their needs and requirements in the process of co-development, add their knowledge and expertise on the critical aspects of the system, the subsystem and the environment, and implementation of the offered technology in the frame of a technical cooperation agreement or commercial agreements with technical assistance by the Dutch partner.

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Attachments

reliability.jpg



Technology Offer

Offer of Wind Tunnel Facilities to experimental activities

Summary

A Portuguese research group, specialised on data acquisition and post-processing in experimental fluid dynamics evaluations, offers 3 wind tunnels with complimentary configurations. They are open to cooperate with industry, universities, R&D institutions, seeking for knowledge and expertise on theoretical and experimental wind tunnel activities. The institute is looking for partners to cooperate with via the following agreements: license, services, research cooperation or technical cooperation.

Creation Date 04 April 2016
Expiration Date 19 April 2017
Reference TOPT20160404001

Details

Description

This research group offer their 3 wind tunnels to experimental activities.

The main characteristics are described below:

- WT1 is a closed loop wind tunnel with a continuously tuned velocity up to 45m/s, an empty test chamber turbulence level below 1% and boundary layers thickness less than 3cm. Its test chamber has 1.25 x 1.00 x 3.00 m³.
- WT2 is an open ends suction wind tunnel with a continuously tuned velocity up to 18m/s, an empty test chamber turbulence level below 3% and boundary layers thickness less than 3cm. Its test chamber has 3.10 x 2.00 x 4.00 m³ and a total length of 9m.
- WT3 provides a 1.5 m diameter jet stream reaching a continuously tuned velocity of 18m/s and is specifically dedicated to open air structure tests.

This research group is open to cooperate with partners from industry, universities or other R&D institutions, seeking for knowledge and expertise on theoretical and experimental wind tunnel activities. The group specialises on data acquisition and post-processing in experimental fluid dynamics evaluations. Assistance on design for model construction can also be provided. The institute is looking for partners to cooperate with via the following typt of agreements: license, services, research cooperation or technical cooperation.

Advantages and Innovations

A great advantage of the cooperation with this research group is its potential for innovation due to the versatility of the facility and the consistent quality of its staff skills.

It has been dedicated to multiple aerodynamics and wind engineering fields such as the wind action on building envelopes or on bridge decks. Many experimental activities have been successful.

Numerous scour tests have been performed to analyse pedestrian comfort and safety on outdoor spaces. Several studies have been accomplished to reduce the wind vibration induced on communication towers and chimneys.

Research has also been developed in the fields of ventilation, vehicle aerodynamics and evaluation of the potential of wind power parks sitting.

Stage of Development

Already on the market

IPR Status

Other

Keywords

Technology

004008	Energy efficiency
02006002	Construction methods and equipment
02006006	Construction engineering (design, simulation)
04005008	Wind energy
09001002	Analyses / Test Facilities and Methods

Market

06003003	Wind energy
09003001	Engineering services
09007004	Engineering and consulting services related to construction

NACE

M.71.1.2	Engineering activities and related technical consultancy
M.71.2.0	Technical testing and analysis
M.72.1.9	Other research and experimental development on natural sciences and engineering

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

SME, R&D Institution or University seeking for knowledge and expertise on theoretical and experimental wind tunnel activities as, for instance, the assessment of building structures and façade elements behavior, bridges aerodynamics stability, pedestrian comfort and safety in open spaces, vibrations induced at towers and chimneys, vehicles aerodynamics behavior or building ventilation conditions.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10, >500 MNE, 251-500, SME 51-250

Type of Partnership Considered

Services agreement
License agreement
Technical cooperation agreement
Research cooperation agreement

Technology Request

Predictive algorithms modeling to forecast diseases and pests in crops plantations

Summary

An Italian SME operating in the Internet of Things market is looking for new predictive algorithms modeling to forecast, as accurately as possible, diseases and pests in cultivations, with a focus on crops. These new algorithms will be integrated in an already existing proprietary Decision Support System (DSS) web-platform for agriculture. The modeling shall allow to widen the range of predictable diseases and pests of further crops. The SME is looking for license agreement or partnership.

Creation Date 06 April 2016
Expiration Date 18 April 2017
Reference TRIT20160406001

Details

Description

The company is a young and agile startup that aims to be disruptive in the Internet of Things market. Mixing creativity, design and advanced engineering, the company is developing innovative hardware and software solutions, meant to change radically the routines of established market leaders. The company is also committed to develop genuine multi-purpose products to improve people quality of life, inventing new ways of interaction with their environment. All the projects carried on are business and consumer oriented, and aim to make good technology available for everybody.

The company is developing an innovative Decision Support System (DSS), operating in the agriculture market. It is an integrated hardware-software system including a network of sensors that collect and process environmental data from plantations, and a web platform that displays the information to the final user.

This is how the DSS works in details:

- it acquires parallel real time measurements of physical and chemical key factors about the surrounding environment by the mean of several sensors (for weather, soil, plant factors, air quality, lighting, and so on);
- it transfers wirelessly the acquired data to the proprietary web platform, deployed on a remote server, in order to provide all necessary data required by predictive algorithms (the data are processed through by predictive algorithms integrated in the platform, which will include the modeling here sought);
- it delivers to the end user information in real time, including the processed data and the results of predictive algorithms, providing a forecast accordingly.

The company is now looking for new predictive algorithms to integrate in its Decision Support

System. The modeling sought should allow the prediction of diseases and pests that can affect the crops. The plantations include (but are not limited to) vegetables, cereals, fruits, vineyards and olive groves. The modeling shall be as accurate as possible, and allow elaborating a precise forecast of insurgent diseases and pests.

The company is open to start a partnership with the modeling provider, as well as purchase the modeling.

Technical Specification or Expertise Sought

- the predictive algorithms modeling shall be able to provide a reliable forecast on diseases and pests that might affect crops plantations;
- the algorithms must have been tested both in labs and on the field;
- the quality of the modeling will be evaluated based on its accuracy: the prediction must be as precise as possible;
- the modeling should be open to future updates, in order to be kept up to date;
- The model should be able to predict, among the others, the following pathogens, fungus and water moulds: peronospora, alternariosis, rhizoctonia, fusarium, powdery mildew (erysiphales), cercospora, pleospora betae (phoma betae).

It should also include predictions for bacteria illnesses likexanthomonas campestris, pseudomonas cichorii and acidovorax valerianellae (gram-negative bacteria).

Stage of Development

Project already started

IPR Status

Other

Keywords

Technology

07001001	Agriculture Machinery / Technology
07001004	Crop Production
07001005	Horticulture
07001007	Precision agriculture
09001009	Sensor Technology related to measurements

Market

03008004	Other electronics related (including alarm systems)
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

NACE

A.01.6.1	Support activities for crop production
C.27.9.0	Manufacture of other electrical equipment
J.63.9.9	Other information service activities n.e.c.

M.72.1.1

Research and experimental development on biotechnology

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: academy, research organization, sme or similar, able to provide reliable predictive algorithms

Specific area of activity of the partner: companies operating in agriculture and agronomists that have developed or can develop predictive modeling are an ideal fit;

The company aims at starting a partnership with the modeling provider, or acquiring the license of the requested modeling.

Type and Size of Partner Sought

SME 11-50, SME <10, >500 MNE, 251-500, SME 51-250

Type of Partnership Considered

License agreement

Technology Request

Medical imaging company for human applied thermo-photo-acoustic imaging prototype development.

Summary

A French public research laboratory dedicated to photonics, electromagnetism, signal & image analysis is working on applications of thermo-acoustic and photo-acoustic imaging. They are promising non-invasive and non-ionizing technologies whereas current techniques imply a certain complexity in capturing and processing the signals to locate a tumor. The laboratory looks for a company in medical imaging sector able to develop a prototype in human through a technical cooperation agreement.

Creation Date 15 April 2016
Expiration Date 25 April 2017
Reference TRFR20160301001

Details

Description

The laboratory team has developed an invention which relates to a method based on thermo- and photo-acoustics for locating at least one target in an electromagnetically absorbent environment. It also relates to a corresponding computer program and device, as well as an application of this method for detecting and locating tumors in biological tissues.

Context:

The photoacoustic or thermoacoustics imagery is growing rapidly now in the biomedical field, in particular because it is deemed to be non-invasive and nonionizing.

Photoacoustics, or thermoacoustics, applied to the locating of heterogeneities (or targets) embedded in an environment characterized by electromagnetic and acoustic properties that are different from these heterogeneities. This is for example the case of heterogeneities such as tumors in biological tissues.

Thermo- and photo-acoustics combine the high contrast in electromagnetic absorption between healthy and cancerous tissue with the high resolution of ultrasound.

However, current approaches require multiple acquisitions and downstream complex processing to locate tumors. Moreover, current approaches limit the use of the acoustic signal resulting from the emission of the excitation signal to the electromagnetic inhomogeneity of the tumors.

Invention:

The technology developed by the laboratory overcomes current photo- and thermos-acoustics limits through a smarter use of marginal signals (acoustic heterogeneities of tumors) with the aim to improve the localization of tumors more quickly and with greater precision.

Indeed, this leads to detecting, in addition to the first response resulting from a first acoustic disturbance caused by the electromagnetic heterogeneity of the tumor in the biological tissue, a

second response resulting from a second acoustic disturbance caused by the acoustic heterogeneity of the tumor.

As such, with a single emission, two pieces of information are available, the source-tumor distance and the tumor-sensor distance, in order to locate the tumor more precisely.

Market applications :

Breast cancer is one of the most important cancer for woman. Actual detection techniques for breast cancer are ionizing and/or not very accurate and/or painful. There is a real need for an accurate tumor localization system and the invention developed by the French team could be this system.

Other medical applications: cancer, angiology and dermatology

Other application : materials characterization is also another possible application (e.g. geology).

Now the French team needs a technical cooperation agreement to develop a prototype in human: the French laboratory has started developing this innovative solution to improve the localization of tumors (more quickly and with greater precision) and is now seeking a company in the medical imaging sector providing technological expertise and the ability to help them further and develop a prototype in human through a technical cooperation agreement.

Technical Specification or Expertise Sought

The laboratory is looking for a medical software or device company having an expertise for development regulation and commercialisation of medical devices (example : software and equipment manufacturers for tomography).

Stage of Development

Under development/lab tested

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

01003012	Imaging, Image Processing, Pattern Recognition
06001003	Cytology, Cancerology, Oncology
06001005	Diagnostics, Diagnosis
06001012	Medical Research
09001001	Acoustic Technology related to measurements

Market

05001001	Diagnostic services
05002	Medical imaging
05002003	Ultrasound imaging
05004001	Electromedical and medical equipment
05005014	Oncology

NACE

Q.86	Human health activities
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Q.86.1

Hospital activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The French laboratory is currently looking for an industrial partner with relevant experiences in medical software or device development having an expertise for regulation and commercialisation of medical devices - and interested in developing the prototype in human.

For example, the team is seeking for software and equipment manufacturers for tomography.

The type of partnership sought is a technical cooperation agreement.

Type and Size of Partner Sought

SME 11-50, SME <10,>500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Looking for expertise in signal processing and sensors for nuclear measurement especially for beta and alpha radiation. Technical or research cooperation agreement is looked for.

Summary

French SME near Paris, specialized in conception of equipment for air quality control, is looking for skills in signal processing for nuclear measurement especially in the field of alpha beta environmental continuous air monitoring. The SME seeks hardware and nuclear detectors (sensitivity, efficiency, etc.), signal processing, alpha spectroscopy and beta counting, in order to develop a prototype (TRL 7). The SME would contract a technical or research cooperation agreement.

Creation Date 26 April 2016
Expiration Date 28 April 2017
Reference TRFR20160419001

Details

Description

French SME near Paris, specialized in conception of equipment for air quality control, has developed a new concept of alpha beta environmental continuous air monitoring.

Specifically, the project consists in developing an acquisition electronics system (hardware and software) to measure alpha and beta activity (Bq / m³ of air). Electronics must collect alpha and beta spectral data for analysis. Alpha and beta spectrums are also used to compensate with radon.

The targeted application is air monitoring in nuclear plants.

The proof of concept is done and the TRL is about 3. In order to reach TRL 7 by realizing a system prototype demonstration in operational environment, the french SME is looking for skills in signal processing for nuclear measurement especially in this field of alpha beta environmental continuous air monitoring.

The SME seeks hardware and nuclear detectors (sensitivity, efficiency, etc.), signal processing, alpha spectroscopy and beta counting, in order to develop a prototype (TRL 7).

The partner sought must have competence and necessary knowledge to realize a part of the prototype, especially the choice of sensors and the signal processing part.

The SME would contract a technical or research cooperation agreement.

Technical Specification or Expertise Sought

The French SME is looking for expertise in the field of signal processing for nuclear measurement especially for beta and alpha radiation. The partner should well know the different kind of sensors for this kind of radiation.

Stage of Development

Available for demonstration

Keywords

Technology

09001009	Sensor Technology related to measurements
09003	Electronic measurement systems

Market

08002002	Industrial measurement and sensing equipment
08003007	Other industrial equipment and machinery

NACE

C.27.9.0	Manufacture of other electrical equipment
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partner sought could be a company or a R&D institution and must have competence and necessary knowledge to realize a part of the prototype, especially the choice of sensors and the signal processing part.

Type and Size of Partner Sought

SME 11-50, University, R&D Institution, SME <10,>500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

Technical cooperation agreement

Research cooperation agreement

Asuntos Sociales y Económicos

Research & Development Request

H2020-FTI: City authorities, smart device manufacturers and graphical designers sought for a project on smart cities

Summary

A Spanish technology centre specialized in industrial design and production is preparing a project proposal for H2020 Fast Track to Innovation call targeted to a new ecosystem which can be operated from a smart device to monitor city infrastructures (from the public/private management authorities) and to provide useful information (for the citizens, as potential end-users). The partners sought are city authorities managing infrastructures, smart device manufacturers and graphical designers.

Creation Date 19 April 2016
Expiration Date 03 May 2017
Reference RDES20160419001

Details

Description

Current city infrastructures (hospitals, museums, hotels, airports, metro/train stations, leisure centres, etc.) are not as exploited as recommended. It is due to the lack of available information regarding their facilities. One of the main limitations is the lack of REAL information for disabled people when accessing a metro or train station, when arriving or booking a hotel room, real distance to arrive a from one point of the terminal to another, etc.

SMARTaccess project wants to solve these constraints and others within SMARTCity context. Thus, main objective is the development (for future commercialization) of a complete ecosystem which can be operated from a smart device to monitor city infrastructures (from the Public/Private Management Authorities) and to provide useful information (for the citizens, as potential end-users).

Specific objectives:

1. More attractive design and development of an app and web tool to interact with smart devices.
2. Adapt smart devices app and web needs.
3. Validation of the new ecosystem in real scenarios.
4. Analysis of trans-cutting issues and agreements for future commercialization.

The project will be structured in the following work packages:

- WP1. App development & new design
- WP2. Smart device development
- WP3. Integration and validation in real scenarios
- WP4. Market analysis and dissemination
- WP5. Trans-cutting issues
- WP6. Coordination and project management.

Expected results and outcomes:

- New product to be commercialized
 - Agreements among the parties for commercialization.
- Framework programme conditions:
- Types of action: Innovation action
 - Deadline Model: multiple cut-off (The budget available will be divided equally between each cut-off date).
 - Evaluation scheme: one stage.
- Timescales:
- Deadline for expressions of interest: May 17th 2016.
 - Call deadline: June 1st 2016.
 - Project duration: 24 months.
- Type and role of the partners:
- End – users / validators: Public/Private Management Authorities that manage city infrastructures (hospital, museums, hotels, airport, metro/train stations, leisure centres, etc.). From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Smart devices manufacturers (tablets / mobiles): From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Graphical designers: From EU countries (out of Spain) and profit or non-profit (preference: profit).
- SMEs are encouraged to participate. SMEs first time submitting are also welcome.

Stage of Development

Field tested/evaluated

Keywords

Technology

01003013	Information Technology/Informatics
01003018	User Interfaces, Usability
01003021	Remote Control
01003022	Smart Appliances
11006	Citizens participation

Market

02005002	Intelligent terminals
02006007	Databases and on-line information services
07001007	Other leisure and recreational products and services
07005003	Hotels and resorts
09007005	Facility management companies

NACE

J.62	Computer programming, consultancy and related activities
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Open for EOI : **No**

Partner Sought

Type and Role of Partner Sought

- End – users / validators: Public/Private Management Authorities that manage city infrastructures (hospital, museums, hotels, airport, metro/train stations, leisure centres, etc.). From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Smart devices manufacturers (tablets / mobiles): From EU countries (out of Spain) and profit or non-profit (preference: profit).
 - Graphical designers: From EU countries (out of Spain) and profit or non-profit (preference: profit).
- SMEs are encouraged to participate. SMEs first time submitting are also welcome.

Type and Size of Partner Sought

SME 11-50, SME <10, SME 51-250

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

Interreg North West Europe: UK enterprise agency seeks TV and broadcast technology partners

Summary

A UK consortium of enterprise agencies is looking for technology delivery partners in the areas of TV, video, broadcast and software development for involvement in an Interreg North West Europe project. The project is a pan-European TV channel dedicated to start ups and business support. Partners should be government agencies, NGOs, education institutes, clusters of expertise, social enterprise or higher education institutions that have experience in developing creative broadcast content.

Creation Date 14 April 2016
Expiration Date 15 April 2017
Reference RDUK20160413001

Details

Description

The project is the development of a pan-european TV channel dedicated to start-ups and business support. This will include videos for social enterprise start-ups and business support. The TV channel will have accompanying media resources including podcasts, blogs and interactive documents and tools. the TV channel will feature videos to support a training and development suite, providing video learning support for SME's, enterprise and social media areas of learning.

This will provide start-ups and small business with accessible learning to ensure business growth and development. It will also boost knowledge flow and increase SME's innovative capabilities and ultimately their competitiveness.

Boosting knowledge flow via a TV channel will also provide an environmental and accessible means of delivering business support that will aid rural and isolated businesses.

A TV channel is much more accessible for small businesses than attending workshops or 1:1 sessions. It is also a more environmentally sustainable method of delivery.

There is currently little business support remaining in the UK due to the demise of the business growth services. By introducing innovative and current mechanisms for engaging with SME's in a flexible and creative manner this will lead to improvements in their understanding and knowledge. Video learning is recognised as an enhanced and preferred style of learning and is much more current and flexible than traditional methods of business support which would use workshops and 1:1 support.

Partners should be government agencies, NGOs, Education and knowledge Institutes, clusters of expertise, social enterprise or higher education institution that have experience in delivering

and creating TV, video and broadcast solutions. Their role will be to produce content for the proposed pan-European TV channel.

The Interreg North West Europe project will focus on fostering transnational cooperation and innovation between Ireland, the United Kingdom, Belgium, Luxembourg, Switzerland, and parts of France, Germany and the Netherlands.

The Interreg North West Europe proposal deadline is 27th May 2016. The deadline for expressions of interest is 6th May 2016.

The project is expected to be between 3-4 years in duration (2016-2020).

Stage of Development

Proposal under development

Keywords

Technology

11002	Education and Training
11003	Information and media, society

Market

01001001	Radio and TV broadcasting stations
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NACE

J.60.2.0	Television programming and broadcasting activities
N.82.9.9	Other business support service activities n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partners should be government agencies, NGOs, Education and knowledge Institutes, clusters of expertise, social enterprise or higher education institution that have experience in delivering and creating TV, video and broadcast solutions.

Their role will be to produce content for the proposed pan-European TV channel.

The UK enterprise agency is leading the proposal and partners will become supporting project partners.

Type of Partnership Considered

Research cooperation agreement

Technology Offer

Development of a golf training device for a license agreement

Summary

A French entrepreneur has developed a pedagogical device to improve the golfer gesture, in the different swing's phases and to optimize ball's trajectories. It is a self-use and portable device. The device fits any morphologies, for left-hand or right-hand golfer. The entrepreneur is looking for an international partner interested in a license agreement.

Creation Date	29 February 2016
Expiration Date	13 April 2017
Reference	TOFR20160113001

Details

Description

A French entrepreneur has developed a pedagogical device for golfers.

Different indicators are integrated to the device. Those indicators fit the golf club used. The various indicators provide the technics and guide the posture, it is a high added value device for the instructor as much as for the player.

There are five visual indicators, which enables to :

- Have a correct body posture according to the golf club used
- Direct properly the club's head on the floor to get a correct gestural according to the club used
- Locate the surface area or the right gesture's angle to adopt according to the club used
- Visualize the gestural's interval tolerance, to avoid the ball trajectory's angle
- Identify the good position of the body, which enables to coordinate different part of the body to give more speed
- Identify the good position of the hand during the gestural to handle the head's club
- To carry out different controlled gesturals to handle ball's trajectory

The device and the indicators developed are aimed to facilitate the Golf training course as the player can play alone and / or the golf instructor can coach several players at the same time.

The device is a designed product: easy to carry, fit any morphologie and any club, with a female and a male design.

The device has been tested and validated by professional golf teachers and users. It is already on the market. Yet, technological evolutions of the device are possible

The entrepreneur is looking for an international partner for a license agreement (a transfer of rights involving the authorization to use the licensed material in return for a fee).

Advantages and Innovations

- The various indicators included in the device encourage the golfer to use the best gesture habits in autonomous way and increase the performance. The use of indicators fit for the club used offers the golfer a more accurate work and a self-assessment.
- The device has been tested and validated by professional golf teachers and users.
- The device is developed, ready to be industrialized and to be on the market
- A French and European patent has been issued. The patent covers the indicators' system
- Trademark and design have been registred
- Industrial feasibility study has been realized, and the entrepreneur sells moulds for the mass production and stocks of finished products.
- Technological evolutions of the device are possible. The technical feasibility study for automation has been completed.

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

Other

Keywords

Technology

11002 Education and Training
11007 Sports and Leisure

Market

07001004 Sporting goods, hobby equipment and athletics clothes

NACE

C.32.3.0 Manufacture of sports goods

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The entrepreneur seeks industries or SMEs active in the sport and leisure markets.
The partner sought can mass produce and market the golf training device, and implement the commercial distribution.

Type and Size of Partner Sought

SME 11-50, SME <10, >500 MNE, 251-500, SME 51-250, >500

Type of Partnership Considered

License agreement