

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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Índice

Búsquedas de socio	
RDUK20160106001	Industrial partners sought for data-driven, manufacturing process optimisation, research project.
RDES20151215001	H2020: Universities involved in research in infant and primary education are sought
RDES20151202001	URGENT-H2020 PS. CuBBee-Customized Building Automation Platform for Driving End-Users Behaviour towards Energy Efficiency (Call: H2020-EE-2016-2017, Topic: EE-07-2016-2017)
RDES20151202001	URGENT-H2020 PS. CuBBee-Customized Building Automation Platform for Driving End-Users Behaviour towards Energy Efficiency (Call: H2020-EE-2016-2017, Topic: EE-07-2016-2017)
RDES20151204001	Urgent H2020 PS. Partners required for demonstration activities in residential buildings or houses in the context of a project proposal for the H2020 Energy Efficiency call (topic EE-07-2016-2017)

Demandas Tecnológicas	
TRKR20150807001	Management system for controlling electrical power of home appliances
TRES20151215001	A Spanish EPCM (Engineering, Procurement and Construction Management) company with experience in the field of civil engineering is seeking to establish agreements to incorporate technology
TRLV20150916001	Water vapor condensation in vacuum system
TRCL20151102002	Chilean Company specialized in cleanliness services is looking for partners in Europe
TRTR20151126001	A Turkish textile company is looking for an apparatus fully integrated with bar tacking sewing machine or complete machinery with such apparatus
TRLV20151202001	Bracelet with tracking device

Ofertas Tecnológicas	
TOIE20151221001	A flexible recycling system to convert plastics and oils into standard fuels.
TOTR20151214001	Sink with a lift mechanism for automatic adjustment of height
TORO20151027001	Mechanism of action and transmission of rotational movement, with increased torque
TOCZ20151111008	Patented innovative technology of production, activation and the efficiency enhancement of sorbents and photocatalysts, and their deposition on the carrier textiles
TOLV20151211001	Magnetic drive for bioreactors
TOUK20151207001	Enhanced solubility bleach activator for use in environmentally friendly, high performance solid laundry and dishwasher detergents

TOIT20151214002	Innovative toothbrush design for more effective cleaning
TOIT20150310001	Licensing of advanced petrochemical technology for the production of Maleic Anhydride ex N-Butane or Ex- Benzene
TOFR20151202001	Engineering services offered to electrical machines and passive components designers and manufacturers in China, Germany and Italy
TORS20151208003	The innovative apparatus for destroying weeds (ambrosia)
TOAT20151201001	New onsite oxygen production line with a high purity grade for medical application
TOLV20150722002	Novel method for seamless knitted clothing
TOLV20151208001	Multi-functional sleeping bag for children
TOCZ20151113001	New type of human-powered vessel for water sport activities
TOCZ20151125001	New type of human-powered vehicle for sport activities and travelling along forest or paved roads
TOFI20151202001	Licencing of or a financial agreement for a football boot outsole invention
TOSE20151202001	3-D platform for enhanced learning
TOCH20150923001	Specific know-how in quantitative human movement analysis in clinical settings offered
TOLV20151208001	Multi-functional sleeping bag for children
TODE20151127001	Optimization of ebike (pedelec) sharing systems
TODE20150507001	Integrating route planning web cloud service
TOPL20151109002	Personal ventilation system to be applied in offices, callcenters, schools, etc.

Otras Tecnologías Industriales

Research & Development Request

Industrial partners sought for data-driven, manufacturing process optimisation, research project.

Summary

A research team from a UK University seeks an industrial partner to join a research project bidding for funding through the UK Engineering and Physical Sciences Research Council (EPSRC) "Design by Science" programme, relating to data-driven optimisation of manufacturing processes. The partner's role would be to deliver evaluation work in a manufacturing environment. The partner may be an SME or a large industrial company. Research cooperation agreements are offered.

Creation Date 07 January 2016
Expiration Date 11 January 2017
Reference RDUK20160106001

Details

Description

Process control data obtained from sensors (optical, chemical, vibrational, etc) contain uncertainties that can be caused by natural variations of parameters such as, characteristics of raw materials; wear of instruments; measurement errors; production environment and sensor noise. These factors affect manufacturing processes making them unstable and inefficient in terms of production outputs, value and/or quality. Handling of these negative factors is costly and laborious.

Typical manufacturing processes involve multiple stages. Each stage uses measurements of process parameters that are required in order to define the settings of machinery equipment. The technological data can be distorted by noise, and so the settings can be defined beyond the optimal mode of equipment. The noise present in data is one type of uncertainty that affects results of modelling and optimisation.

For optimisation and control of a manufacturing process, technological equipment is typically modelled by using an analytical approach whose output is dependent on measurable parameters of the technological process. Typically these models are learnt from real process in order to provide accurate estimation and prediction. The lack of knowledge required for reliable modelling of process causes another type of the uncertainty.

Both types of uncertainties present in data and in technological models will affect the manufacturing process, decreasing the product value and yield. Therefore the cost-efficiency of production will be significantly improved if the manufacturing process can be optimised and modelled in a new conceptual way of minimising impact of uncertainties.

A UK university ICT research group has identified a new approach to optimisation and decision making recognising the uncertainty present in process control data.

In cases of real scale data read from sensors and equipment (also known as in-line measurement data), the above methodological advantages are achieved using computational (Graphics Processing Unit and Field-Programmable Gate Array) accelerators.

An example of manufacturing use is the optimisation of semiconductor manufacturing in part of designing of experiments and finding patterns which lead to value maximisation.

This approach has been shown to outperform existing approaches in cases of predicting health care outcomes as well as predicting failure events that can happen in technological process. This method allows technologists to interpret decision models within the quantitative, probabilistic framework and estimate possible risks most accurately. The new approach allows risks to be interpreted as uncertainty intervals that are reliably inferred from available data, without theoretical assumptions that are often unrealistic.

The optimisation methodology is expected to benefit users in a broad spectrum of manufacturing applications related to Automotive, Chemistry, Bioengineering, Energy, Electronics, Food, Materials, and Pharmaceutical industries.

The research group is forming a consortium to bid for funding through the UK EPSRC "Design by Science" competition in order to further this work with the development of practical, manufacturing process control applications. It therefore seeks industrial partners (SMEs and/or larger companies) to carry out evaluation assessment in real manufacturing environments.

It is likely that the consortium formed for this competition will have the opportunity to bid for further, possibly European funded programmes, in the future. Hence, although the call deadline for "expression of interest" is 21st January 2016, the deadline for expressions of interest will be 30th June 2016. The project itself will have a duration of 3-4 years and the funding intervention rate for EPSRC competitions is 80% of the full economic cost.

Research cooperation agreements are offered.

Advantages and Innovations

- The main advantage is the provision of full probabilistic information that is crucially important for estimating and minimising risks, specifically in safety-critical systems and high-value manufacturing.
- The approach overcomes the limitations of Physics-based modelling which often requires unrealistic theoretical assumptions.
- The approach enables identification of the most influential factors in multi-dimensional technological data.
- The approach offers the capability of discovering new patterns (insights) represented by new combinations of settings and parameters which would not have otherwise been seen.
- The desired solutions are represented by influence diagrams (i.e. fault trees) interpretable by Technologists/Managers.

Technical Specification or Expertise Sought

Manufacturing operations and environment suitable for the evaluation of this approach and provision of relevant feedback to enable development of practical process control applications.

Stage of Development

Proposal under development

Comments Regarding Stage of Development

A project proposal is being developed to submit a bid for funding through the UK EPSRC "Design by Science" competition which has a closing date of 21st January 2016 (or later for "Manufacturing the Future" EPSRC calls).

Keywords

Technology

01003013	Information Technology/Informatics
01003015	Knowledge Management, Process Management
02003005	Information processing & Systems, Workflow
03002	Process Plant Engineering

Market

02003	Specialised Turnkey Systems
02007011	Manufacturing/industrial software
08002002	Industrial measurement and sensing equipment
08002003	Process control equipment and systems

NACE

J.62.0.9	Other information technology and computer service activities
M.72.1.9	Other research and experimental development on natural sciences and engineering
P.85.4.2	Tertiary education

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The UK university is looking for SME or larger industrial partners.

The partner's role would be to provide evaluation of proposed technology aimed at optimising equipment settings, sensor readings and outputs.

A research cooperation agreement would be offered.

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Technology Offer

A flexible recycling system to convert plastics and oils into standard fuels.

Summary

An Irish SME has developed a portable, cost effective modular flexible recycling process using pyrolysis as the catalyst to manage waste oil & non recycled plastics & conversion into upgraded oil & fuel. They offer commercial agreement with technical assistance to expand the market potential; manufacturing agreement using the potential extra capacity & methods with a possibility of sharing intellectual property rights (IPR) & financial agreements with full assignment of the technology & IPR.

Creation Date	21 December 2015
Expiration Date	11 January 2017
Reference	TOIE20151221001

Details

Description

Waste utilization has been centred on combustion of all waste materials aiming at maximizing volume reduction, but the combustion route has proved problematic due to elevated generation of dioxin and CO₂ emissions. Also using combustion in some case destroys the material and so forgoing the possibility of any valorisation of the waste.

Waste oils and plastics in particular are two of the most abundant pollutant residues that are generated causing a negative impact on the environment through their lifecycle.

Waste oil is used oil containing not only breakdown products but also impurities from use. Some examples of waste oil are used oils such as hydraulic oil, transmission oil, brake fluids, motor oil, crankcase oil, gear box oil and synthetic oil.

In relation to plastics and reclamation of same, there remains a portion of the plastic waste stream that cannot be mechanically recycled due to contamination, lack of markets or the inability to separate plastics that can make recovery unfeasible.

Waste valorisation is one approach whereby utilising pyrolysis technology as the conversion system to manage waste oil and non-recycled plastics and the conversion into upgraded oil and fuel, creating a reliable source of alternative energy from an abundant, relatively low-cost feedstock along with the other benefits of a range of valuable commodities.

An Irish SME, in the pyrolysis and plastic recycling solutions business, has developed a multiple pod and or continues solution, utilising Pyrolysis (which is a thermochemical decomposition of organic material at elevated temperatures in the absence of oxygen (or any halogen)).

The system can be operated with electricity without use of any catalysts. It has been developed

and demonstrated at a pilot scale and can be adjusted to accommodate industrial waste, e.g. automobile plastics and packaging materials oil and water mixtures and residues to produce upgraded oils and carbon along with the added benefit of valuable reusable raw material that can be used as another fuel to power combined heat and power (CHP) auxiliary systems.

The SME is offering a number of possibilities as follows; commercial agreement with technical assistance to expand the market potential; a manufacturing agreement utilising the potential of extra capacity and methodologies. There is also a possibility of a financial agreement which can encompass full assignment of the technology and all associated IPR's.

However, any of the mentioned possible agreements will be further discussed on an expression of interest (EOI) status.

Advantages and Innovations

- The system is modular in form.
- Cost efficient and easily scalable to suit the needs.
- Operated with electricity without use of any catalysts
- Flexibility in recycling arrangements e.g. tyres, plastics to oil, waste oil enhancement.
- Can be aligned with CHP (combined heat & power) systems.
- Portable.
- Low amount of residues as by-products (specific to oil upgrading).
- In alignment with environmental regulations utilising gas cleaners (know-how) to reduce e.g. NOX's (Nitrogen-Oxides) emissions in flue gases.
- Remote-monitoring.
- High conversion ratio of up to 95% (oil upgrading specific)
- Oil from waste and oil to oil upgrade can be suitable for a range of application, such as generators, forklifts, agricultural vehicles etc.
- Oil (from automobile, packaging plastics, tyres & oil to oil upgrades) can be used as a component for a blended fuel ratio mix with e.g. diesel.

Stage of Development

Prototype available for demonstration

Comments Regarding Stage of Development

The system is ready for manufacturing in multiple-pod modules or continuous configurations depending on the requirements/demands.

IPR Status

Secret Know-how, Design Rights, Exclusive Rights, Other

Keywords

Technology

02003001	Process automation
02007014	Plastics, Polymers
02007016	Rubber
03002	Process Plant Engineering
04002004	Furnace and boiler technologies

Market

08002001	Energy management
08004002	Chemical and solid material recycling
08004004	Other pollution and recycling related
09008004	Other utilities and related firms

NACE

C.25.2.9	Manufacture of other tanks, reservoirs and containers of metal
C.28.2.1	Manufacture of ovens, furnaces and furnace burners

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

In relation to a commercial agreement - knowledge of the waste valorisation arena and associated market place is desired.

In relation to a manufacturing agreement - fabrication capacity and knowledge of furnaces, condensers, emission scrubbers, centrifuge with key component sourcing ability.

In relation to a finance agreement - funding to take on the various scenarios and also the possibility of taking full assignment of the technology and all its associated IPR's.

Type and Size of Partner Sought

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

Type of Partnership Considered

Financial agreement
Manufacturing agreement
Commercial agreement with technical assistance

Technology Offer

Sink with a lift mechanism for automatic adjustment of height

Summary

A Turkish inventor has developed a lift mechanism to be used in sinks for adjustment of height which is easy to install and operate. With this feature a sink can be easily and safely used by infants and people with disabilities. The inventor is looking for license agreements with partners from industry for the commercialization of the design.

Creation Date 15 December 2015
Expiration Date 12 January 2017
Reference TOTR20151214001

Details

Description

Frequently washing hands is the simplest way of preventing the spread of common diseases in society, and establishing this habit among the children is very important.

Currently, sinks in restrooms and kitchens are at a standard height and it is often very difficult for children to reach and use them. Mostly parents help their children by placing an additional step or a small chair in front of the sink, which may cause serious injuries. The standard sink mechanism is also a burden for the elderly and the handicapped.

A Turkish inventor designed a lift mechanism which is easy to install without any additional plumbing work and which enables the sink to automatically adjust its height. Since the system does not reveal any working mechanism, it is decorative and appealing. It contains sensors that stops the mechanism immediately to avoid accidents.

A working prototype is available and the inventor is looking for license agreements with industrial partners for the successful commercialization of the design.

Advantages and Innovations

The design allows the sink to change its vertical position thus enabling an ease of use for infants, as well as the elderly and the handicapped. It is applicable to every kind of sink and does not require any additional work on the existing plumbing system.

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

Working prototype of the design is available for demonstration.

IPR Status

Other

Keywords

Technology

03010 Household Goods & Appliances

Market

07004003 Home furnishing and housewares

07004004 Housewares

NACE

M.74.1.0 Specialised design activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The inventor is looking for partners from the industry (SMEs or large enterprises) with manufacturing capacity which can license the design and successfully introduce it to the market.

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

Technology Offer

Mechanism of action and transmission of rotational movement, with increased torque

Summary

An inventor from Romania made an actuating mechanism and rotational motion transmission with torque increased. The inventor is seeking for a manufacturing agreement and a commercial agreement with technical assistance

Creation Date 28 October 2015
Expiration Date 01 December 2016
Reference TORO20151027001

Details

Description

The invention relates to a mechanism for transmitting rotational movement where the transmission moment can be given useful forces of a transmission chain, toothed belts or a hydraulic turbine blades.

We know the mechanisms of transmission of rotational movement, for vehicles on wheels, drive generators of electricity. All, however, used to transmit motion the force useful of the active branch of the chain or belt, and in the case of hydraulic turbines, only component of force applied to the blades submerged.

The problem solved by the invention is to provide possibility shaft drive transmission of rotational movement, with a torque increased, led by a convenient arrangement of forces useful. The mechanism of transmission of motion according to the invention is built of a supporting frame (as shown in Figure 1 attached), in which is installed a shaft for transmitting motion, which receives the movement through a chain drive or belt. F_{u1} working force is tangential. leverage effects is achieved by a tangential force F_{u2} , applied to the bolt.

The mechanism of transmission of the rotational movement (Figure 1 attached), according to the invention, comprises a base 1 in which is installed a shaft 2 of the transmission with a chain 3 or the toothed belt at the segments of the sprocket 4. These segments provide engaging the circular gear ring, each segment of a building belonging to the lever 5. It are supported in the middle, through a surface of the channel through which spike b. May lever end and mounted on a bolt 6, which together with other bolts, assemble systems using two disc taler 7.8, the occurrence of tangential force providing useful, along with net tangential force that allows obtaining a moment of motion increased forwarded by two assemblies feathered 9.10.

The inventor is looking for a company to achieve this invention. It also wants to distribute invention to provide technical assistance. If the company sought can solve both problems inventor desired, this will be appreciated.

Seeking partner should have experience in making products in this range in order to offer

technical assistance in developing these products and to distribute them on the market in as many countries.

Advantages and Innovations

If until now the power turbine shaft to measure with this invention can overcome the shaft and acts with leverage degree, which leads to high forces. The mechanism of the invention has as advantage the possibility of transiting the drive shaft with a torque increased.

The mechanism has multiple uses such as:

- Electric power industry;
- Wind turbines;
- Air compressors;
- In other areas where additional strength is needed on such transmissions.

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

02002009	Machine Tools
02008007	Transshipment Systems
03002	Process Plant Engineering
04002005	Generators, electric engines and power converters
04002009	Turbines

Market

06002003	Power grid and distribution
06009	Energy Distribution
08003006	Power transmission equipment (including generators & motors)
08005	Other Industrial Products (not elsewhere classified)
09001007	Other transportation

NACE

C.24.2.0	Manufacture of tubes, pipes, hollow profiles and related fittings, of steel
C.25.9.9	Manufacture of other fabricated metal products n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Desired partner could be a company able to acquire this product. Additionally the company should be able to provide technical assistance and to ensure the distribution of the product thus produced is in order. Otherwise, it needs another company to ensure distribution of the product and possible technical assistance to commissioning.

Type and Size of Partner Sought

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

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance

Technology Offer

Patented innovative technology of production, activation and the efficiency enhancement of sorbents and photocatalysts, and their deposition on the carrier textiles

Summary

A Czech university developed a patented innovative technology of production, activation and the efficiency enhancement of sorbents and photocatalysts, and their deposition on the carrier textiles. The university offers licence agreement to the private entities which will use the results in its own business activities.

Creation Date	12 November 2015
Expiration Date	01 December 2016
Reference	TOCZ20151111008

Details

Description

The patented technology is based on the use of self-organizing of active particles of frozen liquid dispersion in controlled vacuum sublimation. On the sublimation interface the particles are bound to nano-aggregates with a high specific surface area, which can be activated during the process not only by the adsorption, but also by the reactive deposition of thin films, such as photocatalysts. Suitable application of the process on the existing commercial sorbent materials also enables to increase their effectiveness. Industrial application of this technology is only an upgrade of the output and does not require any change within the existing production chain. The basis of the technological process is an application of controlled vacuum sublimation in the production of nanoparticle aggregates and deposits on fibrous and textile carriers with high specific surface area.

The university offers licence agreement to the private entities (environmental protection) which will use the results in its own business activities.

Advantages and Innovations

1. The technology allows the creation of entirely new morphology of nanoparticle aggregates with high values of specific surface area. Such nanoparticle aggregates can serve as a basis for photocatalytic filters for degradation of industry pollutants and warfare CBRN (chemical, biological, radiological and nuclear) agents.
2. The technology enables the preparation of efficient hybrid sorption materials with photocatalytic activity.
3. The technology enables to increase the sorption capacity of some standard sorption materials.
4. The technology enables to deposit the active material on the fiber of fabrics both for filters

and in particular for the protection of military suits.

5. The savings are first and foremost in the cost of thermal energy activation of sorbents.

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

By commercial outputs will be sorption and photocatalytic nanostructured materials of higher quality than a current standard materials used in practice of environmental protection. Such materials will be in the final stage in the form of a nanopowder or fibrous carriers with deposited nanoparticles of active materials.

IPR Status

Patent(s) applied for but not yet granted, Granted patent or patent application essential

Keywords

Technology

02002016	Microengineering and nanoengineering
02007005	Composite materials
02007023	Hybrid materials
02007024	Nanomaterials
03001001	Cleaning Technology

Market

08001009	Speciality/performance materials: producers and fabricators
08001015	Other speciality materials
08004001	Air filters and air purification and monitoring equipment
08004003	Water treatment equipment and waste disposal systems
08004004	Other pollution and recycling related

NACE

O.84.2.2	Defence activities
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The university plans to offer licence agreement to private entities which will use the result in their own business activities. Another possibility is to found a start-up company in connection with a private investor or establish additional scientific and research cooperation with other organizations. The university offers technical assistance at the beginning of the cooperation. By commercial outputs will be sorption and photocatalytic nanostructured materials of higher quality than a current standard materials used in practice of environmental protection. Such materials will be in the final stage in the form of a nanopowder or fibrous carriers with deposited nanoparticles of active materials.

Type of Partnership Considered

License agreement

Technology Offer

Magnetic drive for bioreactors

Summary

A company from Latvia has developed an innovative and efficient technology - magnetic drive for bioreactors and similar industrial or laboratory equipment. The company offers commercial agreement with technical assistance to implement the newly developed magnetic drive in production of bioreactors as well as is looking for technical co-operation or joint projects with research or industrial partners to adapt the magnetic drive for other applications.

Creation Date 11 December 2015
Expiration Date 11 December 2016
Reference TOLV20151211001

Details

Description

A company is involved in development and production of various types of bioreactors for research laboratories and industry. The bioreactors are produced for laboratory or pilot scale industrial applications. The construction of newly developed magnetic drive consists of fixed axis inside the vessel and rotating rotors with mixers. The approach of magnetic coupling ensures lower power consumption, simpler functioning and milder operation conditions. The magnetic drive has been realized in bioreactors with volume from 5 to 3000 liters. The company offers commercial agreement with technical assistance as well as is looking for technical co-operation with research or industrial partners to adapt the magnetic drive for other applications.

Advantages and Innovations

Developed technology is more economic than traditional solutions, it is simple to operate and has mild operation conditions. Technology can be adapted to wide range of volumes as well as to other applications.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

03003 Apparatus Engineering

06002001 Biochemistry / Biophysics
06002003 Enzyme Technology

Market

04007 Enzymology/Protein Engineering/Fermentation
08003007 Other industrial equipment and machinery
08005 Other Industrial Products (not elsewhere classified)

NACE

M.74.9.0 Other professional, scientific and technical activities n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Company is looking for industry or SME that would be interested in implementation of magnetic drive system in bioreactors, or to adapt the magnetic drive to other applications.

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement
Joint venture agreement

Technology Offer

Enhanced solubility bleach activator for use in environmentally friendly, high performance solid laundry and dishwasher detergents

Summary

A UK university has developed a novel formulation bleach activator based on tetra acetyl ethylene diamine (TAED) for use in solid detergents such as laundry and dishwasher products. The new formulation has higher solubility which may result in better cleaning at lower temperatures and improved environmental credentials. The university is looking for technical cooperation or license agreements with detergent manufacturers who wish to improve the performance of their products.

Creation Date 07 December 2015
Expiration Date 09 December 2016
Reference TOUK20151207001

Details

Description

Tetra acetyl ethylene diamine (TAED) is used predominantly in soap powders and dishwasher tablets. Around 60% of total manufactured TAED is used in the solid detergents market and is added to detergent powders at between 2 -12% content. However, although the objective of using bleach activators is to reduce the temperature at which active bleaching species are formed, TAED has poor water solubility at room temperature. Therefore the washing process requires a higher temperature (>40 °C) and a longer washing cycle using more energy and water. The insoluble fraction of the bleach activator is drained into the waste stream causing environmental damage.

The issue of poor wettability, solubility and rate of solution becomes more challenging in the Asia-Pacific markets where there is scarcity of water and hand-wash laundering is used.

This poor water solubility also limits the commercial potential of TAED for other applications which require higher concentrations of activators such as biocidal and germicidal processes and textile, paper and pulp bleaching processes.

This UK university has developed a novel formulation of bleach activator which addresses all of the issues outlined above. The university is looking for technical cooperation or license agreements with SMEs and multinational organisations wishing to improve the performance of their detergent based products.

Advantages and Innovations

Novel TAED formulation with the following advantages:

- Faster to dissolve
- Twice the bleaching power at 20°C (measured by experiment)
- Potential for improved washing performance at lower temperatures = energy saving washing
- Less bleaching agent is needed reducing cost of manufacture
- Improved environmental performance due to less unreacted TAED in waste streams.
- Convenient, ambient temperature TAED based, highly effective biocides and germicides are possible
- Easy, cost effective manufacturing process

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

03004006	Organic Substances
03004009	Soaps, detergents
03004010	Special chemicals, intermediates
03010	Household Goods & Appliances

Market

07004008	Other consumer products
07006	Other Consumer Related (not elsewhere classified)
08004004	Other pollution and recycling related

NACE

C.20.4.1	Manufacture of soap and detergents, cleaning and polishing preparations
M.72.1.1	Research and experimental development on biotechnology
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought - SME or multinational

Specific area of activity of the partner - Manufacture of household cleaning products.
Manufacturers of ingredients for cleaning products

Task to be performed by the partner sought - Evaluate the technology and consider technical cooperation or licensing

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Offer

Innovative toothbrush design for more effective cleaning

Summary

An Italian inventor has designed a new model of device for the care of teeth with an innovative design that allows a deeper and more accurate teeth brushing, even in hard-to-reach areas. He is interested in a manufacturing agreement with companies in the sector of the dental industry.

Creation Date	16 December 2015
Expiration Date	12 January 2017
Reference	TOIT20151214002

Details

Description

An Italian inventor has designed a new ergonomic shape of a device for the care of teeth that allows a more accurate cleaning. The invention is patented. The inventor is looking for manufacturing agreement with toothcare devices producers able to implement the invention and bring it to the market.

Devices for the care of teeth, better known as toothbrushes, have been known for a long time already.

These devices consist of a handle presenting a portion equipped with an array of bristles suitable to allow the teeth brushing.

It is likewise known that, to effectively clean the teeth, the toothbrush has to easily reach all the parts of the set of teeth. In particular, it is preferable that the toothbrush operates the brushing of the front and back surface of each tooth operating with reciprocating motion along a vertical direction. In other words, to be correct, the movement of the toothbrush must be performed according to the longitudinal axis of the tooth, on its inner and outer surface.

To better satisfy this requirement, various forms of toothbrushes, different from the traditional toothbrushes, have been proposed.

Common toothbrushes, which have a fixed conformation, allow a correct brushing action on the outer surface; while in the inner surface the brushing action results to be uncomfortable as well as incorrect.

The aim of the present invention is to overcome the cited drawback by devising a device for the care of teeth which enables to carry out an effective cleaning of all the teeth of the mouth, in particular the portion of teeth facing the inside of the mouth.

Within this aim, a goal of the claimed invention is to provide a device for the care of teeth of simple, practical structural conception, equipped with certainly reliable functioning, of versatile use, and also of relatively economical cost.

The cited aims are reached, according to the claimed invention, by the proposed tooth-care

device.

The developed toothbrush can be referred to as "tilting" as the portion provided with bristles can assume different positions with respect to the handle.

The articulation mechanism, which allows the brushing movement, is of great constructional and functional simplicity. The toothbrush is also ergonomic, since it can be indifferently used by right- and left-handed subjects thanks to the specularity of the two positions.

Advantages and Innovations

- functional parts of the device can easily be made interchangeable;
- the claimed device has the predetermined and limited number of operational positions. This allows using the device more easily in the correct position.
- the device results of simple and sturdy structure in order to have moderate costs, adequate to the requirement of a product of large consumption.
- materials used for the actual realization of the invention, as well as their shapes and sizes, can be various, depending on the requirements.

Stage of Development

Available for demonstration

IPR Status

Patents granted

Keywords

Technology

03001001	Cleaning Technology
06001004	Dentistry / Odontology, Stomatology

Market

05007001	Disposable products
07006	Other Consumer Related (not elsewhere classified)

NACE

M.74.1.0	Specialised design activities
M.74.9.0	Other professional, scientific and technical activities n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:
In general, companies from dental industry. More in details, producers of toothcare devices
- Specific area of activity of the partner:
Production of toothcare devices
- Task to be performed by the partner sought:
Manufacture of the proposed invention

Type of Partnership Considered

Manufacturing agreement

Technology Offer

Licensing of advanced petrochemical technology for the production of Maleic Anhydride ex N-Butane or Ex-Benzene

Summary

An Italian company leading in process engineering design has developed new technologies to obtain optimum plant performances and limit the environmental impact. The SME has developed a Maleic Anhydride (MAN) process, an important intermediate for the production of lubricant oil additives, copolymers, agricultural chemicals, food additives, special anhydrides and alkyd resins. The company offers license agreement with technical cooperation.

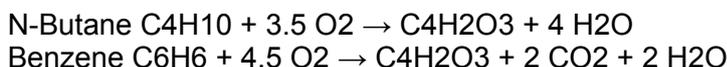
Creation Date	10 March 2015
Expiration Date	09 December 2016
Reference	TOIT20150310001

Details

Description

The company born and raised in Rome-Italy, with a history that lasts for more than 45 years has developed this innovative product produced by a catalytic partial oxidation of vapor N-Butane or Benzene in a fixed bed reactor using the oxygen contained in air.

The primary chemical reaction are respectively the following:



The main side reaction is the total oxidation of the raw material to produce CO and CO₂, but other by-products are produced in small quantity. The reactor conditions are optimized to maximize the Maleic Anhydride production, minimizing the by-products. Since the reactions are exothermic, the generated heat is used to produce steam, which is used in the plant and can be also exported to other users. The reactor effluent stream is cooled, producing other steam, and sent to the recovery section, where Maleic Anhydride is absorbed by a selective organic solvent, which is easily available on the free market. Crude Maleic Anhydride is recovered from the solvent in a stripper and then further purified in a continuous distillation system.

A portion of the recycled solvent is treated in a simple solvent purification system, where the impurities are removed. After Maleic Anhydride removal, the gas coming from the Maleic Anhydride recovery section is sent to an incinerator, producing flue gas and heat, used to produce steam. Only in the process from N-Butane, a fraction of the gas coming from the

recovery section can be recycled to the reactor to improve the overall yield of conversion of N-Butane.

For small capacities, the company has also the know-how to implement in its plant the water recovery system.

The cooperation types that the company is looking for are: License Agreement with technical cooperation.

Advantages and Innovations

The innovation offered by the company is a gas phase catalytic oxidation process using normal butane (or benzene) as feedstock. Thanks to an advanced reaction system integrated with a patented process of recovery and purification, the technology can be regarded as highly advanced and modern.

The technology of reaction has been substantially improved resulting in better yields and high productivity.

The recovery and purification system employs a readily available solvent and adopts unique features which result in high yield of recovery, low energy requirements, no regular shutdown and clean-outs, minimum environmental impact and high and consistent quality of the product.

Main advantages and innovations of the product proprietary technology are resumed here below:

- Lowest feedstock (n-butane) consumption (off-gas recycle patented technology)
- High Maleic Anhydride recovery efficiency (solvent recovery patented technology)
- Low energy and water consumptions
- Zero liquid effluents
- 40% reduction of gaseous effluent
- Continuous operation
- Safe Design

Stage of Development

Already on the market

Comments Regarding Stage of Development

The process is proven in units in production totalizing more than 300.000 T/Y of Maleic Anhydride capacity.

IPR Status

Secret Know-how, Patents granted

Keywords

Technology

02007014	Plastics, Polymers
03002	Process Plant Engineering
03004001	Agro chemicals
03004005	Man-made fibres
03004010	Special chemicals, intermediates

Market

08001014	Lubricants and functional fluids
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08001022	Agricultural chemicals
08001023	Other chemicals and materials (not elsewhere classified)
09003001	Engineering services
09003005	Consulting services

NACE

M.71.2.0	Technical testing and analysis
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: the company is looking for construction companies that are interested in operating with the technology

- Specific area of activity of the partner: Production, Construction

- Task to be performed by the partner sought: further development and/or application of the technology through an agreement

Type and Size of Partner Sought

SME 11-50,R&D Institution,SME <10,SME 51-250

Type of Partnership Considered

License agreement

Technical cooperation agreement

Technology Offer

Engineering services offered to electrical machines and passive components designers and manufacturers in China, Germany and Italy

Summary

A French engineering and applied research company offers to collaborate on R&D projects for clients in the field of electrotechnical system development (e.g. electrical machines, passive components). It can work under a technical services, technical cooperation or Research cooperation agreements and is looking for partners in China, Germany and Italy.

Creation Date	02 December 2015
Expiration Date	17 December 2016
Reference	TOFR20151202001

Details

Description

A French electrical engineering consultancy and applied research laboratory wants to collaborate on R&D project and proposes to intervene within mathematical modeling, digital simulations, experimental measurements, or even software development. The company offers a full and secure technical knowledge transfer to the client.

It has expertise in the fields of:

- system analysis, multiphysics problem solving, modelling and optimisation of electrical machines and static converters. It can therefore work on electro technical system development.
- electrical engineering (electro mechanics and electromagnetics), thermics, vibro-acoustics, structural mechanics and fluid mechanics. It can therefore tackle multiphysics problems.
- applied mathematics dedicated to modeling, numerical simulation and optimisation of complex systems.

For example, the company has already worked on these kinds of projects among others :

- Working on design optimisation of electromechanical devices (electrical machines, transformers, inductors ...) including cooling and electrical noise and vibrations criteria in its approach
- Understanding of physical phenomena responsible of acoustic noise in existing electrotechnical system
- Efficiency improvement of a squirrel cage induction machine
- Training on noise and vibration due to magnetic force on electrical machines
- Multiphysics optimal design of passive component

The French company is looking for partners such as designer and manufacturers of electrical machines and passive components (transformers, inductors, etc) from China, Germany and

Italy. It is offering its technical services or acting under technical cooperation agreements in order to improve electrical machines and passive components. It has the capacity to work on the development of new concepts, managing the ideation process and technical studies, to further the development of these electrical products. Industry and transport companies using such electrical machines are also of interest.

Research cooperation agreements are also of interest to take part of large projects with EU funding (working on a work package needing electrical engineering expertise), with other companies as well as universities and laboratories.

Advantages and Innovations

The company is able to solve Multiphysics problems thanks to a multidisciplinary team: electrical engineering (electromechanics and electromagnetics), vibro-acoustics, thermics, heat transfer, fluid mechanics and structural mechanics;

It has established partnerships with universities, electrical engineering laboratory in Lille and thermal engineering laboratory in Valenciennes, North of France, and a strong culture of innovation;

Based on its industrial experience, the company has developed its own software for the analysis of noise and vibrations due to electromagnetic forces in electrical machines – the software is used to support its engineering consultancy activities;

The company has also developed special simulation tools for the modelling of magnetostriction and Maxwell magnetic forces in transformers and inductors.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

03003	Apparatus Engineering
04002005	Generators, electric engines and power converters
04002012	Other energy related machinery
05003001	Vibration and Acoustic engineering

Market

09003001	Engineering services
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NACE

M.71.1.2	Engineering activities and related technical consultancy
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The French company is offering its services to designers and manufacturers of electric machines (synchronous or asynchronous machines, all types of technologies) and passive components (transformers, inductors) in China, Germany or Italy. It could also be industry or transport companies facing development issues on electrical machines.

Partners can be looking for a R&D partner for their electric machines or passive components design and manufacturing projects.

They can also have needs in terms of studies management, modelling or experimental measurements and trials for their projects and so on working under technical services agreements

Furthermore, they may be looking for a partner for co-development of new concepts, improvement of on-going product development or problem saving on already commercialized products. They can act under technical cooperation agreement in this case. The foreign company is expected to deal with all aspects related to prototyping. Exploitation rights are expected to be shared between the French consultancy and its partners in case of new concept co-development.

Research cooperation agreements are also of interest to take part of large projects with EU funding (working on a work package needing electrical engineering expertise), with other companies as well as universities and laboratories.

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

Services agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

The innovative apparatus for destroying weeds (ambrosia)

Summary

A Serbian company has developed a device for destroying weeds (ambrosia), which uses the frequency and electrical current, without pesticides, destroying weeds in the root. The advantages of the innovation compared to existing solutions are: environmentally friendly product; efficient (destroying weeds in the root in one treatment, compared to trimmers and pesticides; and practical and mobile. The company is looking for partners for joint venture and service agreement.

Creation Date	08 December 2015
Expiration Date	30 December 2016
Reference	TORS20151208003

Details

Description

This Serbian company is specialized in the innovative solutions for the destruction of weeds. The company has international experienced team in the field (15 to 30 years) from Germany, Switzerland, Sweden, Croatia, Bosnia and the United States.

The company has made innovative apparatus for the destruction of ambrosia, which with the help of its electronic assembly destroys ragweed in the root by frequency and electrical current. The innovation consists of a small plastic box that is associated with a plastic stick. The plastic box has an electronic circuit element inside, and on the outside there is a switch. The box is supplied with electricity from a battery of 12 volts or via an extension cable directly from the network (or sets). On the stick there is a key switch, and passing through it are the cables, and on the top there is an electrode.

The apparatus is put into operation by pressing a switch on the box, and then pressing the button on the stick and physically touching ragweed with the electrode. On the electrode electrical current bursts in low power and on certain frequencies, this destroys ragweed in the root. For the destruction of ragweed, it is enough to hold the switch on the stick up to 1 second, and when dealing with larger stalks its desirable holding it up to two seconds.

Power consumption is 20 W. The device is insulated, made with a high level of protection and security for people and animals. The product can selectively destroy the weeds, does not destroy useful plants or micro-organisms in the soil.

The innovative device has been tested in Belgrade, Germany, Slovenia, Sweden, in cooperation with the Swedish Faculty of Agriculture - Department for Environmental production plants.

The device can be used in homes, cottages, town parks, for agriculture purposes, organic farming, meadows and more.

International patent application was filed in Geneva.

The company is interested in finding partners for joint venture agreement. The company offers human resources - workers who will work in a rented hall. Workers will assemble the components that the company will order from 5 different companies, which will make

components for the device according to the patent. Assembled components - finished packaged product will be delivered by motorists to customers.

The company will take over the servicing and maintenance of equipment under warranty.

The company's engineers are working on the further development and perfecting of a new generation of devices for the destruction of large groups of weeds and functionality of the device shell be examined at the Swedish University of Agriculture with their instruments. The company will lead the organization of production and supply activities. Marketing in Southeast Europe and America will be done by the company.

The company is interested also in service agreement. The company will provide human resources - workers who will destroy ragweed. It ensures appliances, work uniforms and shoes for the workers, as well as maintenance and servicing.

Advantages and Innovations

The novelty of the innovation makes electronic circuit, which produces a specific frequency and power that destroys the ambrosia in the root.

The advantages are:

- Environmentally friendly - does not pollute the environment because it uses frequencies and electrical currents, while the use of pesticides pollute the environment.
- Efficient device - destroys weeds (ambrosia) during the first treatment in the bud, ragweed doesn't grow any more during the season. By using trimmers and mower ambrosia is only temporarily destroyed, hence the mowing treatment should be repeated every two weeks. By using pesticides spraying treatment should be repeated up to three times per season.
- Cost-effective - a worker is engaged only once, at the beginning of the season, to go on the field and destroy ambrosia, while cutting ambrosia using a trimmer and mower should be performed every two weeks depending on the weather conditions, which increases the costs of human resources, depreciation costs mower-trimmer and fuel. Pesticides treatment should be repeated up to three times per season. The cost of this kind of treatment is 150 eur per hectare, but there are also the costs of human resources, fuel for tractors, machinery, depreciation costs.

Stage of Development

Already on the market

Comments Regarding Stage of Development

Currently is hand-held device designed for the destruction of ambrosia and garden weeds that is powered with a battery of 12 volts, which is separated from the device. In the next three months it is planned to design changes and device design purses where they will be stored in the battery.

IPR Status

Patent(s) applied for but not yet granted

Keywords

Technology

03003	Apparatus Engineering
07001001	Agriculture Machinery / Technology
07001003	Biocontrol

Market

09003007	Other services (not elsewhere classified)
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09004008

Other manufacturing (not elsewhere classified)

NACE

C.28.3.0

Manufacture of agricultural and forestry machinery

C.28.9.9

Manufacture of other special-purpose machinery n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: companies dealing with sales channels, product placement on the market.

Role: Within the joint venture, the company expects investment for the start of series production, the payment of fees for maintenance of a patent in the countries in which the company negotiates export of products.

Within services agreement, the company expects connections to city services and performance of services in cities. Also, within the service to connect with agricultural holdings and services on their plots.

Type and Size of Partner Sought

SME 51-250

Type of Partnership Considered

Services agreement

Joint venture agreement

Technology Offer

New onsite oxygen production line with a high purity grade for medical application

Summary

An Austrian company developed an innovative technology for the production of oxygen with a high purity grade (greater than 99.5%). Due to this fact it is optimal for medical application. The production line is an onsite manufacturing facility where oxygen is separated from ambient air in a special process. The company is looking for partners from the mechanical engineering sector to launch serial production and distribution. Commercial agreements with technical assistance are also sought.

Creation Date 01 December 2015
Expiration Date 07 December 2016
Reference TOAT20151201001

Details

Description

Until now medical facilities like hospitals, ambulances, etc. could purchase their required oxygen (liquid or gaseous) only from large gas producers. Conventional onsite manufacturing facilities could only reach a purity grade up to 95%. Therefore they could not meet the standards of the Pharmacopoeia (Pharma Coupe).

An Austrian company succeeded in developing an onsite manufacturing facility, where oxygen with a purity grade greater than 99.5% is produced. All applicable quality standards and guidelines are met. A patent has already been granted for this product.

Process:

The oxygen to be processed is taken from the ambient air. In a special separation process, ceramic material in the form of a molecular sieve separates the oxygen from the air (pressure swing adaption - PSA). The air is compressed with a pressure of 5 bar. During this compression it is important that the air is oil and dust free and that a certain humidity degree is not exceeded. For this reasons air processing/treatment is a key factor.

This compressed air is passed through the air separator. There it is separated into oxygen and residual gases due to pressure changes in the molecular sieve. The oxygen for medical use is ready. The residual gases are emitted into the ambient air.

First prototypes have already been assembled and run successfully. The company is now looking for partners to enter into technical and manufacturing agreements for the serial production. Commercial agreements with technical assistance from the company are also sought.

Advantages and Innovations

- oxygen for medical application
- high purity grade of the oxygen (greater than 99.5%)
- onsite production of oxygen from ambient air
- consistent high quality
- continuous monitoring
- operating pressure up to max. 10 bar
- patented manufacturing process
- reduction of costs for oxygen
- low production and supply costs
- reduction of transport costs
- no establishment and installation of expensive liquid tanks
- variable plant size depending on the customer needs

Stage of Development

Available for demonstration

Comments Regarding Stage of Development

first prototypes are already assembled and are running successfully

IPR Status

Patent(s) applied for but not yet granted, Granted patent or patent application essential, Trade Marks

Keywords

Technology

02002012	Mixing (powder, etc.), separation (sorting, filtering)
02002014	Extrusion
03002	Process Plant Engineering
06001013	Medical Technology / Biomedical Engineering

Market

05004001	Electromedical and medical equipment
05007007	Other medical/health related (not elsewhere classified)

NACE

D.35.2.3	Trade of gas through mains
G.47.7.8	Other retail sale of new goods in specialised stores

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

type and specific area of activity of the partner:
industry and SME of any size

technology sector:

- mechanical engineering
- metall and plastics
- control engineering

Task to be performed by the partner:

The company is looking for partners for the realisation and especially the start-up of a serial production of the new technology. The partner should have possibilities and facilities for the production and distribution. The Austrian company provides the know-how and technical support, including intellectual property rights.

Type and Size of Partner Sought

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

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance

Technology Request

Management system for controlling electrical power of home appliances

Summary

A Korean SME which has developed wireless communication & superspeed equipment is looking for the management system for controlling electrical power of home appliances. The SME seeks the license agreement.

Creation Date 07 August 2015
Expiration Date 05 January 2017
Reference TRKR20150807001

Details

Description

A Korean SME which has developed wireless communication & superspeed equipment is looking for the automatic management system for controlling electrical power of home appliances.

The company requires the management which can reduce the waste of the electrical power by interrupt standby power while the appliances are not working. Also, the company researchers would like to make the database of operational time of each appliance so that they develop the system for energy saving method in accordance with energy consumption patterns.

The SME seeks the license agreement.

Technical Specification or Expertise Sought

- Analysis of energy consumption patterns
- Controlling electrical power
- Fault detection and diagnosis

Keywords

Technology

01003014 Internet Technologies/Communication (Wireless, Bluetooth)
03010 Household Goods & Appliances

Market

01004007 Network test, monitoring and support equipment

NACE

J.61.2.0

Wireless telecommunications activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:
Industry / Research Institute
- Specific area of activity of the partner:
Wireless communication

Type of Partnership Considered

License agreement

Technology Request

A Spanish EPCM (Engineering, Procurement and Construction Management) company with experience in the field of civil engineering is seeking to establish agreements to incorporate technology

Summary

A Spanish EPCM (engineering, procurement and construction management) company with large experience in the field of civil engineering (F41) is requesting technology in the field of water, power generation and biomass and waste treatment facilities for its spinoff concerned in environmental issues such as water, waste, biomass and power generation. The company is seeking to establish commercial and joint venture agreements, as well as licences, services and subcontracting agreements.

Creation Date 15 December 2015
Expiration Date 12 January 2017
Reference TRES20151215001

Details

Description

The Spanish EPCM (engineering, procurement and construction management) company has extensive experience in the field of civil engineering (F41), structural engineering, naval inspection and quality control activities.

Currently, the company is working in projects and facilities development and full implementation projects and construction management in the work, around the world and in many market sectors.

The company has offices in Algeria, Armenia, Brazil, Chile, Colombia, Costa Rica, Peru, Qatar and Spain (Barcelona and Madrid) and it has bilateral agreements with European engineering to develop its activities in France, Norway, Switzerland and UK.

The services offered by the company are:

- Consultancy,
- Site supervision
- Material laboratory
- Inspection and site testing
- Project management
- Studies and simulations

The services are offered in many market sectors:

- Building construction
- transport
- water
- environment
- Geotechnics
- Oil and gas
- Naval and urban Planning

The company has a spinoff concerned in environmental issues such as water, power generation and biomass and waste treatment facilities.

This spinoff is requesting technology in the field of water, power generation, biomass and waste treatment facilities through the establishment of commercial and joint venture agreements as well as licenses, services and subcontracting agreements.

The cooperation is sought in companies from China and Middle East (Turkey, Egypt, Israel, Jordan). From Latin America in Peru, Mexico and Chile. And from Europe: France and Italy.

Technical Specification or Expertise Sought

Expertise in water treatment, power generation and biomass and waste treatment facilities.

Stage of Development

Project already started

IPR Status

Exclusive Rights

Keywords

Technology

03002	Process Plant Engineering
10003004	Recycling, Recovery
10003007	Waste to Energy /Resource
10004001	Industrial Water Treatment

Market

06003009	Biomass and Biofuels
08005	Other Industrial Products (not elsewhere classified)

NACE

F.41.1.0	Development of building projects
F.41.2.0	Construction of residential and non-residential buildings

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought:

Multidisciplinary partners or specialized engineering and consulting firms (including research and innovation centers) willing to set up a long term agreement and deploy projects in the environmental field (waste, water, power generation and biomass).

Specific area of activity of the partner:

Ideally the company would like to collaborate in the following areas: Water, Power generation, biomass and waste treatment facilities.

Task to be performed by the partner sought:

The company is seeking to establish commercial and joint venture agreements , as well as licences, services, acquisition and subcontracting agreements.

The partner region should be China, Turkey, Middle East, Peru, Colombia, Mexico, Chile, France and Italy.

The partner role will depend on the project but is expected to hold experience executing related projects and fields. Also, the partner should have expertise in executing turnkey water and waste technology projects, power generation and biomass projects with marketing competency.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement

License agreement

Manufacturing agreement

Commercial agreement with technical assistance

Technical cooperation agreement

Joint venture agreement

Technology Request

Water vapor condensation in vacuum system

Summary

A small company from Latvia, involved in manufacturing apiary products is searching for cost effective technology or know-how that would prevent water vapor suction into the vacuum pumps. The desired technology should condensate 99% (or close to this figure) of vapors. The company is looking for commercial agreement with technical assistance.

Creation Date 22 December 2015
Expiration Date 23 December 2016
Reference TRLV20150916001

Details

Description

A small company from Latvia, with more than 20 year experience in bee keeping and manufacturing apiary products, is looking for cooperation partner that would be able to offer technology to condensate around 99% of water vapors into water.

The company has developed completely new and very healthy product: mix of fresh berries and natural honey (directly from bee hive without any structural changes). These two ingredients are mixed, after that vacuum drying technology is applied. The drying process is carried out in temperature range 37C-45C. During drying process the water is evaporated from the product. Drying is one of the methods of food preservation based on removing water from the food. Vacuum drying of food is relatively new. Rather than freezing food to low temperatures, the air around the food is removed. This causes rapid evaporation of water inside food. The speed and the fact that it happens at temperature of human body guarantees that taste, color and nutritional value of the food are preserved.

The vapors formed in the drying process are pumped out by vacuum system. The company has installed its own design devaporater, however its efficiency is very low. Large amount of vapors pass the devaporater and causes damage to vacuum pumps.

To solve this problem the company is looking for technology that would allow to condensate almost 99% of water vapors.

Technical Specification or Expertise Sought

Cost-effective technology.
Water vapor temperature 37C-45C.
Efficiency rate 99% or close to this.

Stage of Development

Already on the market

IPR Status

Secret Know-how,Patent(s) applied for but not yet granted,Patents granted,Other

Keywords

Technology

02003001	Process automation
03002	Process Plant Engineering
07001001	Agriculture Machinery / Technology
08001004	Food Processing
08001005	Food Technology

Market

03004003	Other electronics related equipment
08003001	Machine tools, other metal working equipment (excl. numeric control)

NACE

A.01.4.9	Raising of other animals
A.02.3.0	Gathering of wild growing non-wood products

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

A company is looking for an inventor, SME or R&D institution that could provide the desired technology. Company is looking for commercial agreement with technical assistance.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Technology Request

Chilean Company specialized in cleanliness services is looking for partners in Europe

Summary

Chilean companies group dedicated to industrial cleaning and maintenance of offices is looking for technology and experience in cleaning solar panels, dry systems, or other methods using a minimum of water and automatic systems, for a big projects (big surfaces) and also for business relationships, both for possible joint projects such as representation, distribution and sale of technology in all Europe in order to stablish a technologic transfer agreement.

Creation Date 02 November 2015
Expiration Date 24 December 2016
Reference TRCL20151102002

Details

Description

Chilean companies group dedicated to industrial cleaning and maintenance of offices.

A company specializes in industrial cleaning and maintenance services for offices, buildings, and individual locations that require a professional's service for specific or monthly jobs.

A company specializing in high rise window and building facade cleaning. Their services are made up of the highest and newest technology in the world. They are the exclusive representatives of the pure water cleaning system "IONIC System" and nanotechnology in Chile. Working with Pole Systems, High Rise Robot, and Pure Water System.

They are looking for technology and experience in cleaning solar panels, dry systems, or other methods using a minimum of water and automatic systems, for a big projects.

Also, they are looking for business relationships, both for possible joint projects such as representation, distribution and sale of technology.

Technical Specification or Expertise Sought

They are looking for technology and experience in cleaning solar panels, dry systems, or other methods using a minimum of water and automatic systems, for a big projects (big surfaces)

Stage of Development

Already on the market

IPR Status

Copyright

Keywords

Technology

03001001 Cleaning Technology

Market

08005 Other Industrial Products (not elsewhere classified)

NACE

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

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The Chilean company is looking for partners with expertise in this area with the objective to exchange technology and news trends.

Type and Size of Partner Sought

SME 11-50, University, Inventor, R&D Institution

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Textil y Calzado

Technology Offer

Novel method for seamless knitted clothing

Summary

A company from Latvia, working in lightweight industry, has developed a new method for manufacturing seamless knitted clothing. Technology can be used for different types of yarn and for manufacturing different types and shapes of clothing. Company is looking for partners from fashion and cloth manufacturing industries. The preferable cooperation forms - manufacturing agreement, commercial agreement with technical assistance.

Creation Date 22 December 2015
Expiration Date 23 December 2016
Reference TOLV20150722002

Details

Description

SME from Latvia, with more than 5 years experience in clothing industry, basing on their experience have developed new method for manufacturing seamless knitted clothing. Seamless knitting technology is introduced as one entire complete garment with minimal or no cutting and sewing process. The developed innovative method ensures knitwear consumers with more comfort and better fit. All this is achieved by eliminating seams, that allows garment to better fit on any type of body.

The offered method can be utilized for different natural , such as wool, merino, mohair, cashmere, silk, rayon, and synthetic (elastane, polyamide, polyester) yarns. Usage of combined yarns is also possible.

The method can be implemented in any existing machinery. There is no need for costly machinery upgrade or rebuilding.

The company is interested to find two type of partners:

1. Representatives from fashion industry, interested to utilize technology for new type garment manufacturing.
2. Manufacturing companies interested to obtain the technology - method.

Advantages and Innovations

No need for costly upgrades or rebuilding of existing machinery. Easy installation, and very cost effective in operation. Can utilize all type of yarns and combinations.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

Technology

03005001 Component adhesives for strengthening of seam

Market

07004001 Clothing, shoes and accessories (including jewellery)

07006 Other Consumer Related (not elsewhere classified)

NACE

C.13.9.1 Manufacture of knitted and crocheted fabrics

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for cooperation partners from fashion and clothing manufacturing industries. For representatives from fashion industry, company is interested to sign manufacturing agreement. Commercial agreement with technical assistance more related to representatives from clothing manufacturing industries.

Type and Size of Partner Sought

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

Type of Partnership Considered

Manufacturing agreement
Commercial agreement with technical assistance

Technology Offer

Multi-functional sleeping bag for children

Summary

A company from Latvia engaged in eco textile product manufacture and sewing services has elaborated and patented a multi-functional sleeping bag for children. Sleeping bag includes sheet and duvet, pillow and blanket – everything easy to assemble and re-assemble for washing. The company is looking for joint venture or licensing.

Creation Date 08 December 2015

Expiration Date 08 December 2016

Reference TOLV20151208001

Details

Description

Starting from the moment the child is born till school age children enjoy being swaddled and restricted – initially in swaddling-clothes, later children choose ordinary sleeping bags and create their own world in their beds. In order to create an easy to use product for kinder-gardens and to add more fun to the midday siesta, the company has developed multi-functional sleeping bag from natural fabrics.

Sleeping bag combines multiple parts:

a sheet, consisting of two fabric layers with embedded softener/heater

a zipper closed duvet cover with easy to insert/remove blanket

a pillowcase with easy to insert/remove pillow

Main benefits of the product:

Easy to use on variable height beds and different sleeping places;

Stay-in-place bed clothes keep clean for longer saving washing expenses;

Less allergies, skin problems and other risks for kids getting cold while freezing in their sleep;

Sleeping bag's heating level can be adjusted by adding or removing heat blanket or opening zippers;

Advantages and Innovations

The product holds Latvian patent;

The multi-functional sleeping bag is easy to use and wash;

The product is suitable both for home use and travel, as well as for using in kinder-gardens and schools;

Sleeping bag is produced in eco production plant and is 100% cotton.

The supplementing elements of the sleeping bag – pillow and blanket – are semi-synthetic allowing light and warm effect.

The size and details of the product can be changed according to requirements of the client.

Stage of Development

Already on the market

Comments Regarding Stage of Development

Alreday on the market

IPR Status

Patents granted

Comment Regarding IPR status

Patents granted

Keywords

Technology

03005004	Finisher related to Textiles Technology
03005008	Weaving related to Textiles Technology
11002	Education and Training
11007	Sports and Leisure

Market

05010003	Patient rehabilitation & training
07001003	Toys and electronic games
07001007	Other leisure and recreational products and services

NACE

I.55.1.0	Hotels and similar accommodation
I.55.9.0	Other accommodation
Q.86.9.0	Other human health activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for other companies and industries that would be interested to use the product or modify it for local applications. Company is considering technical cooperation, licensing or commercial agreement with technical assistance.

Type and Size of Partner Sought

251-500

Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

Technology Request

A Turkish textile company is looking for an apparatus fully integrated with bar tacking sewing machine or complete machinery with such apparatus.

Summary

A Turkish company which serves as a subcontractor for the world's top clothing retailers would like to improve its bar tacking sewing process with automation and therefore is looking for an apparatus for sewing on of lace or labels, or complete set of bar tacking sewing machine with that apparatus. Company would like to sign commercial agreement with technical cooperation.

Creation Date 26 November 2015
Expiration Date 12 January 2017
Reference TRTR20151126001

Details

Description

A Turkish company is producing knitted fast fashion garments and serving as a subcontractor for the world's top fast fashion companies. Company which was founded in 1990, placed in Izmir, has the production capacity of 3.000.000 pieces of goods monthly. With more than 170.000.000 € turnover, and 500+ employees, company is one of the biggest exporters in Turkey and also has a place among the biggest 500 companies in Turkey. Company has the official R&D center title, given by the Ministry of Science, Industry and Technology and continuously develops new textile fabrics and production methods with co-operation of Universities. Company not only has many awards given by both governmental and private bodies, but also has many international certificates such as Oeko-Tex, EU Flower, Organic Exchange and Clear to Wear.

Company is using bar tacking sewing machine and operating sewing on of lace or labels process manually. In order to automatize this process, company is looking for producers or developers of automated lace or labels sewing apparatus. Either the apparatus itself or bar tacking sewing machine with apparatus is needed. Company is looking for commercial agreement with technical cooperation.

At first stage only 1 piece of product will be ordered but according the performance of the product, the company is planning to order 120 more pieces.

Technical Specification or Expertise Sought

The apparatus should be integrated with bar tacking sewing machine. The apparatus will be used to cut sheets (non-elastic) according to the products. Sheet width is between 3-6 mm. Apparatus will be adapted to different sizes of lace. The apparatus will be integrated with bar

tacking sewing machine which is used in producing 3.000.000 pieces of product monthly. Either the apparatus itself or bar tacking sewing machine with apparatus is sought.

Stage of Development

Already on the market

Keywords

Technology

03005003	Dyeing related to Textiles Technology
03005004	Finisher related to Textiles Technology
03005008	Weaving related to Textiles Technology
03005009	Woven technical textiles for industrial applications

Market

07004001	Clothing, shoes and accessories (including jewellery)
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NACE

C.13.2.0	Weaving of textiles
C.13.3.0	Finishing of textiles
C.13.9.1	Manufacture of knitted and crocheted fabrics
C.14.3	Manufacture of knitted and crocheted apparel

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Partner should be able to develop bar tacking sewing machine apparatus or is currently selling the fully developed apparatus. Machinery manufacturers with products of bar tacking sewing machine with automated lace or label sewing apparatus may also apply to this profile.

The apparatus developer partner should be able to develop the product according to the requirements of the client and the product must be compatible with existing bar tacking sewing machine.

Technical assistance from the partner is expected.

Type of Partnership Considered

Commercial agreement with technical assistance

Asuntos Sociales y Económicos

Research & Development Request

H2020: Universities involved in research in infant and primary education are sought

Summary

A Spanish university with expertise in the study of social inclusion in infant and primary education is leading a project proposal to the call H2020 REV-INEQUAL-06-2016: Tackling inequalities at their roots: new policies for fairness in education from early age. The university is looking for other European universities with expertise in research in infant and primary education, specialized in teaching language, mathematics, English, physical education, law, sociology, geography, history, Arabic.

Creation Date	15 December 2015
Expiration Date	17 December 2016
Reference	RDES20151215001

Details

Description

A Spanish university is leading a project proposal to the call H2020 REV-INEQUAL-06-2016: Tackling inequalities at their roots: new policies for fairness in education from early age. The university has deep expertise in the study of social inclusion in infant and primary education.

This project proposal is aimed to develop a research in the current situation of European children at early age at school, their level of academic performance, socio-emotional skills and their level of inclusion. Furthermore, the project will research how all these aspects are related to the degree of digital literacy and extracurricular activities support (dances, sports, painting).

The proposal will also try to assess to what extent the innovative practices of social inclusion contribute to improving school performance, social skills for interaction or integration of children from different cultures and their emotional development, as well as to expose the differences between them in terms of children's experiences in different educational practices such as physical education, language learning, mathematical learning, etc.; both in the formal and informal sector.

As a result, the proposal will be able to propose methodologies and collaborative work, project work, problem-based learning, cooperative learning, and social inclusion strategies in the school and out in the community scope (activities for formal and informal education).

The proposal plans to address the main goal of the H2020 -REV-UNEQUAL-06-2016 call: reducing inequality and discrimination in European education systems, which is particularly challenging and relevant, considering that:

- it is both more efficient and equitable to invest in education in the early stages
- early childhood education facilitates later learning and can produce large socio-economic

returns, especially for disadvantaged children

- innovative practices for increasing the efficiency of education systems could also play an important role for equity
- corrective activities later on always are inefficient in comparison.

The university is looking for partners with experience in any of the following topics related to early childhood and primary education: teaching language, mathematics, English, physical education, law, sociology, geography, history, Arabic, etc.

The consortium at present consist of two universities, one from Spain and the other from Austria. Three other Universities have been invited to participate (France, Italy and Rumania). The aim is to have a consortium of eight to ten members.

The project duration is 4 years: 3 years for developing the research and another year for proper dissemination and impact.

Deadline for the call: 6th February 2016.

Deadline for expressions of interest: 20th January 2016.

Stage of Development

Proposal under development

Keywords

Technology

11002	Education and Training
11004	Technology, Society and Employment

Market

01006005	Other communications (not elsewhere classified)
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NACE

P.85	Education
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type of partner sought: University

Specific area of activity of the partner: Research in infant and primary education, especially in teaching language, mathematics, English, physical education, law, sociology, geography, history, Arabic.

Task to be performed: The activities to be performed are related to the following work packages (WP) of the proposal:

WP2 Analysis of the current situation of childhood and primary education of new generations of migrants in Europe.

WP3 Preparation and implementation of surveys (directed to teachers, children and their families).

WP4 Analysis of the information gathered through surveys.

WP5 Workshops and virtual forum for the definition of inclusion strategies for immigrant students in school and Primary Education.

WP6 Dissemination and use of knowledge generated.

Previous EU / International project experience: Not needed

Type and Size of Partner Sought

University

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

URGENT-H2020 PS. CuBBee-Customized Building Automation Platform for Driving End-Users Behaviour towards Energy Efficiency (Call: H2020-EE-2016-2017, Topic: EE-07-2016-2017)

Summary

Andalusian SME looks for a partner to join a Horizon 2020 project proposal. The project aims at developing and demonstrating a universal and interoperable platform able to cope with any existing building automation and control system (BACS) and suitable to be automatically customized to a wide range of end-users, especially building operators and occupants, through user-friendly tools and applications. SME or Research Centre, expert on socio-economic analyses, is needed to join the consortium

Creation Date 02 December 2015
Expiration Date 07 December 2016
Reference RDES20151202001

Details

Description

The platform to be developed in the context of this project is structured into four different layers. The two layers at the bottom are the communication and data ones, which are connected to the building/dwelling appliances and control system.

The communication layer is based on a commercial off-the-shelf vision system which assures the total compatibility with any existing BACS and protocols and by hence reduces significantly the deployment and acquisition costs (sensors, gateways, etc.).

The layer above the data layer performs several analysis of user behaviour in terms of energy consumption and cost. To do so, it considers different scenarios (what-if-analysis) and applies a variety of methodologies such as benchmarking, patterns identification, reference building, historic data analysis etc. After this analysis, customized recommendations are shown to the user (e.g. building/dwelling occupant or building manager/operator) who will be in a better position to take informed decisions.

Finally, the upper layer is the visualization layer, which is the graphical interface (GUI) for communication and interaction with the user. This GUI will be customized to the needs and preferences of the different end-user types of the CuBBee platform. The GUI will be designed taking into account the result of the social analysis which is an important part of the proposal and which will cover a wide socio-economic spectrum of users and in different countries. Moreover gamification techniques, based on a selection of Key Performance Indicators, will be

used to motivate the frequent use of the CuBBee platform by end-users, to engage users' awareness on energy behaviour and, as a consequence, to achieve a behavioural change towards energy efficiency.

Partners already involved in the consortium. Role and expertise

- CEMOSA (SME, Spain): Coordinator, expert in energy efficiency and building
- Fraunhofer EAS (Research partner, Germany): Partner, expert in control and automation systems, energy analysis and ICT
- NSC (SME, Germany): Partner, ICT developer
- Oxford Brookes University (Research partner, UK): Partner, expert in energy, social
- ASM (SME, Poland): Partner, expert in social and business

The proposal will be submitted to the H2020-EE-2016-2017 call and Topic EE-07-2016-2017 Behavioural change toward energy efficiency through ICT

The coordinator is looking for a SME or Research Centre, to join the consortium in order to carry out the project activities related to the socio-economic analysis:

- analysis of social behaviour in relation to energy choices
- market analysis and business models

Deadline of the call: 21/01/2016

Deadline for the EOIs: 11/01/2016

Anticipated duration of the project: 208 weeks (4 years)

Advantages and Innovations

- This universal and interoperable Information and Communications Technology (ICT) platform will be able to cope with any existing building automation and control system (BACS)
- It will be suitable to be automatically customized to a wide range of end-users, especially building operators and occupants
- It will be easy to manage since it's based on user-friendly tools and applications
- The ICT platform will be useful to support buildings' occupants in decision making in relation to energy, comfort and cost.

Technical Specification or Expertise Sought

- Information on the Call: H2020-EE-2016-2017 call and Topic EE-07-2016-2017 Behavioural change toward energy efficiency through ICT
- Deadline: 21 January 2016 17:00:00 (Brussels local time)
- Total call Budget: 93 M€
- Anticipated Project Budget: 2 M€
- Type of action: Innovation action
- Proposal development stage: Proposal under development. Proposal consortium pending to join the required partner
- H2020 finance conditions: grant with 70% or 100% of reimbursement (depending on the type of entity), including a 25% of indirect costs
- Requested partners to involve in the project proposal: SME or -Research Centre
- Specific area of activity of the partner: socio-economic analysis
- Tasks to be performed:
analysis of social behaviour in relation to energy choices
market analysis and business models

Stage of Development

Proposal under development

Keywords

Technology

004008	Energy efficiency
01004006	Environment Management Systems
01004011	Maintenance Management System
11001	Socio-economic models, economic aspects

Market

02007015	Integrated software
06006001	Thermal insulation
06006002	Metering and monitoring
06006003	Heat recovery
06010001	Energy for private/domestic housing

NACE

F.41.1.0	Development of building projects
J.62.0.3	Computer facilities management activities
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

Requested partner to involve in the project proposal: SME or Research Centre
Specific area of activity of the partner: socio-economic analysis
Tasks to be performed:
-analysis of social behaviour in relation to energy choices
-market analysis and business models

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Research & Development Request

Urgent H2020 PS. Partners required for demonstration activities in residential buildings or houses in the context of a project proposal for the H2020 Energy Efficiency call (topic EE-07-2016-2017)

Summary

Andalusian SME looks for partners to involve in a H2020 proposal (topic EE-07-2016-2017) for demonstration activities in residential buildings or houses. The project aims at developing and demonstrating a platform able to cope with any existing building automation and control system (BACS) and suitable to be automatically customized to a wide range of end-users, especially building operators and occupants. Validation pilots in the residential sector are required to test the innovative platform

Creation Date 04 December 2015
Expiration Date 14 December 2016
Reference RDES20151204001

Details

Description

The outcome of the project is an Information and Communications Technology (ICT) tool and its applications. It will be suitable to be installed in a wall mounted display, Personal Computer (PC), tablet or mobile. It will consist on an interactive, attractive, user-friendly and customizable platform integrated with the building (or house) control system (for heating, cooling, domestic hot water, and lighting). The software application will provide the user information on its energy consumption, energy cost and environment and comfort variables and will also provide advices or alerts to support the end user in a more efficient use of energy. Gamification techniques will be used to make attractive the use of the application by the user.

The ICT platform will be demonstrated in residential buildings/houses. The houses in which the project will be validated will be monitored before the start of the project.

Partners already involved in the consortium. Role and expertise:

- SME, Spain: Coordinator, expert in energy efficiency and building
- Research partner, Germany: expert in control and automation systems, energy analysis and ICT
- SME, Germany: ICT developer
- Research partner, UK: expert in energy, social
- SME, Poland: expert in social and business

The coordinator is looking for partners able to provide validation pilots in the residential sector for the demonstration activities. Access to the pilots will have to be guaranteed.

The proposal will be submitted to the H2020-EE-2016-2017 call and Topic EE-07-2016-2017 Behavioural change toward energy efficiency through ICT

Deadline of the call: 21/01/2016

Deadline for the EOIs: 11/01/2016

Anticipated duration of the project: 208 weeks (4 years)

Advantages and Innovations

- The houses occupants will benefit from a system supporting them for a more efficient use of energy and from a tool which will provide a comprehensive information on energy use, advices, alarms, etc.
- This universal and interoperable Information and Communications Technology (ICT) platform will be able to cope with any existing building automation and control system (BACS)
- It will be suitable to be automatically customized to a wide range of end-users, especially building operators and occupants
- It will be easy to manage since it's based on user-friendly tools and applications

Technical Specification or Expertise Sought

Information on the Call: H2020-EE-2016-2017 call and Topic EE-07-2016-2017 Behavioural change toward energy efficiency through ICT

Deadline: 21 January 2016 17:00:00 (Brussels local time)

Total call Budget: 93 M€

Anticipated Project Budget: 2 M€

Type of action: Innovation action

Proposal development stage: Proposal under building. Consortium pending to join the required partners

H2020 finance conditions: grant with 70% or 100% of reimbursement (depending on the type of entity), including a 25% of indirect costs

Requested partners to involve in the project proposal: Companies, Research&Development Institutions, Universities

Specific area of activity of the partner: residential buildings/houses

Tasks to be performed: provide validation pilots in the residential sector for the demonstration activities of the project.

The conditions requested for the pilots are:

- Access to the houses/dwellings will be guaranteed
- The houses/dwellings will have already the monitoring system installed

Stage of Development

Proposal under development

Keywords

Technology

01003004	Computer Games
01003018	User Interfaces, Usability
01004011	Maintenance Management System
04007001	Energy management
11001	Socio-economic models, economic aspects

Market

02007014	Other industry specific software
06009	Energy Distribution
08002001	Energy management
09007001	Construction companies
09007005	Facility management companies

NACE

F.41.2.0	Construction of residential and non-residential buildings
F.43.9.9	Other specialised construction activities n.e.c.
J.62.0.9	Other information technology and computer service activities
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: Companies, Research&Development Institutions, Universities

Specific area of activity of the partner: residential buildings/houses

Tasks to be performed: provide validation pilots in the residential sector for the demonstration

activities of the project.

Conditions for the pilots:

- The access to the houses/dwellings will be guaranteed
- The houses/dwellings will have already the monitoring system installed

Type and Size of Partner Sought

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

Type of Partnership Considered

Research cooperation agreement

Technology Offer

New type of human-powered vessel for water sport activities

Summary

A Czech research centre has developed a new type of human-powered vessel for water sport activities in still water bodies (e.g. reservoirs or lakes). The developed vessel is equipped with a special oscillating and wobbling system which is ergonomically tailored to use all human body muscles (leg, arm, abdominal, back) to generate propulsion. The research centre is looking for companies manufacturing small vessels interested in license agreement.

Creation Date 16 November 2015
Expiration Date 02 December 2016
Reference TOCZ20151113001

Details

Description

Human-powered transport is the transport of persons using human muscle power. There are three types of traditional human-powered vehicles – land (e.g. bicycles, skateboards, roller skates), aircraft (e.g. gliders, balloons) and watercraft (e.g. canoes, rowing boats). Most of the traditional human-powered vehicles uses only certain muscle group, for example bicyclists use much more leg muscles than arm muscles. Therefore human body muscles are unequally loaded and developed.

The Czech research centre has developed new type of human-powered vessel from aluminium alloy for water sports activities in still water bodies such as reservoirs or lakes. The motion of the vessel is generated by a special oscillating and wobbling system which is ergonomically tailored to use all human body muscles (leg, arm, abdominal, back). The oscillating and wobbling motion of the propulsion mechanism is transmitted to underwater propelling elements connected to the steering mechanism which controls tilt angle. The propelling element tilt angle is determined by the forward and backward movement of the steering rod mounted on the front part of the vessel. The tilt system also ensures the braking function. The developed vessel presents very effective cardio exercise for people of all ages and even for persons with certain disabilities.

The research centre is looking for companies manufacturing small vessels interested in manufacturing of new type of human-powered vessel and introducing it to the market. Prototype of the vessel is available for demonstration. Completion of final technical and design solution is expected from partner sought. Specification of license agreement (licensing fees, etc.) will be negotiated.

Advantages and Innovations

In comparison with traditional human-powered vehicles, developed vessel uses all human body muscles (leg, arm, abdominal, back). Therefore human body muscles are equally loaded and developed.

Stage of Development

Prototype available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

National R&D programme

Keywords

Technology

02009001	Design of Vehicles
11007	Sports and Leisure

Market

07001	Leisure and Recreational Products and Services
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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

Companies manufacturing small vessels.

Role of the partner sought: completion of final technical and design solution, manufacturing of new type of human-powered vessel and introducing it to the market.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Technology Offer

New type of human-powered vehicle for sport activities and travelling along forest or paved roads

Summary

A Czech research centre has developed a new type of human-powered vehicle for sport activities and travelling along forest or paved roads equipped with a special oscillating and wobbling system. This system is ergonomically tailored to use all human body muscles (leg, arm, abdominal, back) to generate propulsion. The research centre is looking for companies manufacturing small vehicles interested in license agreement.

Creation Date 25 November 2015
Expiration Date 09 December 2016
Reference TOCZ20151125001

Details

Description

Human-powered transport is the transport of persons using human muscle power. There are three types of traditional human-powered vehicles – land (e.g. bicycles, skateboards, roller skates), aircraft (e.g. gliders, balloons) and watercraft (e.g. canoes, rowing boats). Most of the traditional human-powered vehicles uses only certain muscle group, for example bicyclists use much more leg muscles than arm muscles. Therefore human body muscles are unequally loaded and developed.

The Czech research centre has developed a new type of human-powered vehicle from aluminium alloy for sport activities and travelling along forest or paved roads. The motion of the vehicle is generated by the special oscillating and wobbling system which is ergonomically tailored to use all human body muscles (leg, arm, abdominal, back). The vehicle consists of a fixed frame and an oscillating cradle. The oscillating and wobbling motions are transmitted to the rear wheel of the vehicle by chain transmission. The stabilizer of the oscillating motion is a torsion bar disposed in the axis of the oscillating cradle. The range of oscillating angle of the drive mechanism is limited by stoppers mounted on the vehicle frame. The driving of the vehicle is ensured by handlebar connected to the front wheels. The track of the vehicle is changed by turning of front wheels. The developed vehicle presents very effective cardio exercise for people of all ages and even for persons with certain disabilities.

The research centre is looking for companies manufacturing small vehicles interested in manufacturing of new type of human-powered vehicle and introducing it to the market. Prototype of the vehicle is available for demonstration. Completion of final technical and design solution is expected from partner sought. Specification of license agreement (licensing fees, etc.) will be negotiated.

Advantages and Innovations

In comparison with traditional human-powered vehicles, developed vehicle uses all human body muscles (leg, arm, abdominal, back). Therefore human body muscles are equally loaded and developed.

Stage of Development

Prototype available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

National R&D programme

Keywords

Technology

02009001	Design of Vehicles
11007	Sports and Leisure

Market

07001	Leisure and Recreational Products and Services
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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

Companies manufacturing small vehicles.

Role of the partner sought: completion of final technical and design solution, manufacturing of new type of human-powered vehicle and introducing it to the market.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Technology Offer

Licencing of or a financial agreement for a football boot outsole invention

Summary

A Finnish inventor has developed a football boot invention that creates the ability to improve the outsole traction in a fast and easy way. The inventor is interested in a licencing agreement with a manufacturer or to find investors and start to produce football boots based on the advantage that the invention creates.

Creation Date	03 December 2015
Expiration Date	24 December 2016
Reference	TOFI20151202001

Details

Description

Football is played on different kinds of ground types such as sand, artificial grass, dry grass and wet grass. There are also existing football boots with different outsole abilities for different ground types. Still majority from the 265 million football players of the world play on all the different ground types with just one pair, because they prefer to invest in one expensive high quality pair and they play with that same pair on all the different ground types and often they play with a bad traction if for example they play with the same boot on a hard artificial grass and on a wet soft grass.

The new invention creates the ability to improve the outsole traction in a fast and effortless way and to play on every different ground type with a good performance by using just one pair of football boots.

The new invention is a part of the outsole and it is located in the heel area in an inverted position. The first mode gives fairly similar reach to all of the studs in the heel area and it is suitable for a firm ground and artificial grass. If the sole part is turned 180 degrees, the reach of the studs that are further in the heel increases and it can penetrate deeper to the soft ground and it gives a better traction on a soft wet grass.

The Finnish inventor is specialised in product development of sporting goods and sports marketing. The inventor is offering a licensing agreement for a football boot manufacturer or is searching to find investors in order to start to produce football boots based on the advantage that the invention creates.

Advantages and Innovations

There have not been any major inventions to the outsole of a football boot since the replaceable studs came several decades ago. If replaceable studs are changed, every single stud needs to be screwed separately and it is very time consuming, hard work and also needs a lot of iron parts to the outsole. Also every stud is under a heavy pressure and often can cause technical problems.

With the new invention it is faster and easier to increase the traction compared to replaceable studs.

Also there is just one stud that holds the new outsole part on its place. There is also no pressure to this same stud, because the pressure points are inside of the outsole part. Therefore it works really well.

Stage of Development

Project already started

IPR Status

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

Profile Origin

Private (in-house) research

Keywords

Technology

11007

Sports and Leisure

Market

07001004

Sporting goods, hobby equipment and athletics clothes

NACE

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

The first option is to make a licensing agreement with a football boot manufacturer or manufacturers, i.e. the football boot manufacturer would manufacture under a licence and sell the products. The second option is to find investors and start to produce own football boots based on the advantage that the invention creates. The inventor is also open for other suggestions as well.

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

License agreement
Financial agreement

Technology Offer

3-D platform for enhanced learning.

Summary

A Swedish innovation company has developed a cost effective, high quality 3-D viewing platform, for enhancing and improving learning and understanding. Using standard viewing devices and distribution solutions, the technique facilitates understanding of complex pictures, models and schemes and increases the perception of the reader/pupil. The company is looking for partners interested in developing and licensing the technology for applications in education and training.

Creation Date 02 December 2015
Expiration Date 11 January 2017
Reference TOSE20151202001

Details

Description

Using 3-D is a great way to enhance visual communication which can be beneficial in a wide range of training areas ranging from industrial- and medical applications to standard education. It has been scientifically proven that a 3-D image gives up to 400% better visual perception than the same image in 2-D which indicates great advantages and possibilities if using the power of 3-D to increase the learning potential in different training situations or to improve evaluation and interpretation of complex structures and pictures. 3-D also enhances learning experiences and takes virtual environments closer to reality.

One of the challenges in using 3-D has been the very limited distribution possibility with relatively large investments in 3-D hardware (TVs, projectors, etc.) needed to be made by the receiver/user and also many times quite complex set-up and user handling.

The company offers a patented, flexible 3-D viewing system that makes it possible to see 3-D on standard displays at very moderate costs which means that it makes it possible to consider using 3-D in a wide range of training applications and educational purposes.

The company has extensive knowledge and experience in the area of 3-D and has worked with global solutions for increasing learning perception in different educational and training application areas. The Company is looking for partners interested in developing the technology for enhanced education and training and also companies and institutions interested in licensing the technology for different applications.

Advantages and Innovations

- The technology is flexible and can be integrated with different software and hardware's.
- Can be integrated in different education media.
- Increases student perception, motivation and educational results.
- The technology is very cost effective.
- No need for expensive 3-D hardware.
- Simplicity and usability.

Stage of Development

Already on the market

IPR Status

Patents granted, Copyright

Profile Origin

Private (in-house) research

Keywords

Technology

01005002	E-Learning
01005006	Visualisation, Virtual Reality
01006001	Audiovisual Equipment and Communication
11002	Education and Training
11003	Information and media, society

Market

02007007	Applications software
02007010	Education software

NACE

J.62.0.9	Other information technology and computer service activities
P.85.6.0	Educational support activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Education and training companies, Industry, Public training organizations, Content developers, Active in any area where visual presentation is used and can be enhanced with 3-D, interested in joint content and tool development, to enhance training perception.

Partners are also sought for licensing of the technology to different applications.

Type of Partnership Considered

License agreement

Technical cooperation agreement

Technology Offer

Specific know-how in quantitative human movement analysis in clinical settings offered

Summary

A research group at a Swiss university of applied sciences offers specific know-how in the field of human movement analysis. Their expertise is to transfer the obtained quantitative data into clinical applications. To quantify human movement different state of the art measurement systems are applied. The researchers are seeking technology or research cooperations or services agreement with partners active in medical technology, rehabilitation, ergonomic systems, orthopedics or related fields.

Creation Date 23 September 2015
Expiration Date 05 January 2017
Reference TOCH20150923001

Details

Description

Human movement analysis has become an investigative and diagnostic tool in areas like medicine, rehabilitation and sports. Motion analysis is critical in the medical field as it allows for example clinical decision making previous to surgical interventions or assessment of effectiveness of therapeutic treatments. In postural and gait analysis, the location and orientation of body parts are tracked and used to calculate joint angles in combination with measured external forces acting on the body. Knowing the actual forces acting on the body in a laboratory setting allows the development and assessment of medical devices in a controlled and standardized environment but for realistic situations.

The research group offering its expertise belongs to the movement laboratory of a Swiss university of applied sciences. The laboratory offers research as well as clinical expertise and the main focus lies in the transfer of research findings into clinical practice.

Offered expertise:

While the laboratory allows quantification of human movements, the expertise of the research group lies in the generation of clinically meaningful and scientifically sound research questions and measurement protocol as well as in the translation of results into clinical context. The research group has participated in various projects with the goal to advance measurement technique in applied settings (e.g. assessment tools for physiotherapy) and development of medical technology (e.g. automated gait trainer), ergonomic systems (e.g. dynamic office chair), and footwear. Based on their combined expertise in movement analysis and rehabilitation they are able to build connections between technology and health.

The clinical and research expertise lies in the areas of physiotherapy, movement science, biomechanics of the spine (lower spine as well as neck) and the lower extremities (with special focus on the foot).

Applied technologies:

In the laboratory there are multiple measurement systems available for human movement analysis. These systems allow quantification of movement, e.g. gait or movement of the spine, in healthy as well as impaired people and can often be used simultaneously with other technology to, for example, test validity of a newly developed device.

Three-dimensional human movement is quantified using a multi-camera, marker-based system that obtains joint angles during motion as well as force plates to record ground reaction forces. The combination of these two technologies allows the calculation of internal joint forces and moments and, therefore, the in-vivo joint loading. Additionally, the activity of skeletal muscles can non-invasively be recorded with electromyography. Further, the research group has several systems that allow the measurement of gait parameters and ground reaction forces outside the laboratory (field test).

The research group is looking for industrial or clinical partners, e.g. companies developing medical technologies or ergonomic systems, which are interested in technology or research cooperation, possibly in the frame of a European funding project, or services agreements.

Advantages and Innovations

Using movement analysis for the development of medical technology allows the assessment of functionality of the technology in a controlled laboratory environment but for relevant situations, movements, or settings. The research team has experience in clinical as well as research settings and can define the relevant questions needed to further the development of medical technology. These questions can be answered using the laboratory infrastructure and by translating the results into daily clinical practice. This approach allows for an efficient, relevant and high quality product development.

While the development of medical technology without the use of human testing may be time efficient, using movement analysis allows testing of the product with use-cases, in realistic settings and provides information about usability as well as the comparison to gold-standard technology for movement analysis. It facilitates the connection between technology and health which can be translated into a competitive advantage.

Stage of Development

Already on the market

IPR Status

Other

Profile Origin

National R&D programme

Keywords

Technology

06001008	Environmental Medicine, Social Medicine, Sports Medicine
06001013	Medical Technology / Biomedical Engineering
06001020	Physiotherapy, Orthopaedic Technology
06001023	Medical Furniture
11007	Sports and Leisure

Market

05003001	Therapeutic services
05005015	Orthopaedics
05005022	Other clinical medicine
05007003	Handicap aids
05010003	Patient rehabilitation & training

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 specific area of activity of the partner:

Companies, hospitals, research centers or other organizations that are active in the field of medical technology, physiotherapy, orthopedic and ergonomic technology or related fields.

The tasks to be performed by the partner sought:

In case of a technology cooperation the sought partner should execute or plan a technology or research project where human movement analysis is needed or might add value to the developed device or service. The partner should evaluate and integrate the data obtained by movement analysis into further development of technology and clinical decision making. In case of research cooperation, joint development of R&D projects and application for funding is envisaged. Services agreements are sought with partners in need of sophisticated human movement analysis in context with a product or therapy, e.g. with the aim of further improvement or adaptations.

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

Services agreement
Technical cooperation agreement
Research cooperation agreement

Technology Offer

Multi-functional sleeping bag for children

Summary

A company from Latvia engaged in eco textile product manufacture and sewing services has elaborated and patented a multi-functional sleeping bag for children. Sleeping bag includes sheet and duvet, pillow and blanket – everything easy to assemble and re-assemble for washing. The company is looking for joint venture or licensing.

Creation Date 08 December 2015

Expiration Date 08 December 2016

Reference TOLV20151208001

Details

Description

Starting from the moment the child is born till school age children enjoy being swaddled and restricted – initially in swaddling-clothes, later children choose ordinary sleeping bags and create their own world in their beds. In order to create an easy to use product for kinder-gardens and to add more fun to the midday siesta, the company has developed multi-functional sleeping bag from natural fabrics.

Sleeping bag combines multiple parts:

a sheet, consisting of two fabric layers with embedded softener/heater

a zipper closed duvet cover with easy to insert/remove blanket

a pillowcase with easy to insert/remove pillow

Main benefits of the product:

Easy to use on variable height beds and different sleeping places;

Stay-in-place bed clothes keep clean for longer saving washing expenses;

Less allergies, skin problems and other risks for kids getting cold while freezing in their sleep;

Sleeping bag's heating level can be adjusted by adding or removing heat blanket or opening zippers;

Advantages and Innovations

The product holds Latvian patent;

The multi-functional sleeping bag is easy to use and wash;

The product is suitable both for home use and travel, as well as for using in kinder-gardens and schools;

Sleeping bag is produced in eco production plant and is 100% cotton.

The supplementing elements of the sleeping bag – pillow and blanket – are semi-synthetic allowing light and warm effect.

The size and details of the product can be changed according to requirements of the client.

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

Private (in-house) research

Keywords

Technology

03005004	Finisher related to Textiles Technology
03005008	Weaving related to Textiles Technology
11002	Education and Training
11007	Sports and Leisure

Market

05010003	Patient rehabilitation & training
07001003	Toys and electronic games
07001007	Other leisure and recreational products and services

NACE

I.55.1.0	Hotels and similar accommodation
I.55.9.0	Other accommodation
Q.86.9.0	Other human health activities

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is looking for other companies and industries that would be interested to use the product or modify it for local applications. Company is considering technical cooperation, licensing or commercial agreement with technical assistance.

Type and Size of Partner Sought

251-500

Type of Partnership Considered

License agreement

Commercial agreement with technical assistance

Technology Offer

Optimization of ebike (pedelec) sharing systems

Summary

A German university of applied science and arts conducts a project on electric two-wheelers for recreation and tourism that deals with the integration of an ebike sharing system in cities. The university is mainly in charge of the technical and social-science based evaluation of the sharing system. The project team offers its know-how, methodology and technical data to companies and organizations interested in technical cooperation or joint research projects on the topic.

Creation Date 27 November 2015
Expiration Date 01 December 2016
Reference TODE20151127001

Details

Description

The project started in May 2013 within the German federal government program on electro mobility. Thereby, two ebike sharing system have been built:

1. In a German city a sharing system was launched on the 01.09.2015 with a total of 52 ebikes and 3 stations. Besides the regular ebikes it is also possible to rent electric cargobikes. The rental is free of charge until the end of the project (30.06.2016).
2. At the university a sharing system was launched on the 07.09.2015 with a total of 11 ebikes and 2 stations. The rental is for employees and students only and is also free of charge.

As a partner of the project the German university is mainly in charge of the technical and social-science based evaluation of the ebikes and the sharing system. Since the maintenance costs for an ebike is higher due to the additional electronic parts than for a regular bike, it is reasonable to adjust the dimensioning of the ebikes to the driving behavior of the customers. As a result, failure rates and maintenance costs can be reduced. For this purpose, the ebikes are being equipped with data loggers which record driving relevant data (e.g. GPS data, velocity, motor current) during a trip.

The university already developed a method to generate user specific driving cycles in order to represent the average driving behavior of the customers. With the driving cycles and the other data it is possible to examine different loads of the ebikes in different situation. Thereby, conclusions about occurred damages can be drawn. As a result, recommendations can be derived in order to optimize the dimensioning of the ebikes. For the examination two test benches are available at the institute. With the first one it is possible to analyze different ebikes regarding their energy demand under consideration of different influencing factors and velocity profiles. The second test bench is for the analysis of different ebike motors (hub motors as well as middle motors).

Technical cooperation and joint research projects are offered to academia, industrial partners and other organisations / institutions.

Advantages and Innovations

The research work of the university has several advantages and innovations:

- With the comprehensive data collection it is possible to analyze many different driving situations. In addition to that, the cause of damages can be identified more quickly because of the different characteristic data that are being recorded.
- Based on the recorded data user specific driving cycles are being developed. Therefore, different loads can be simulated and damages can be reconstructed with the ebike test benches of the university.
- The achieved results are being used to develop a maintenance concept. Thereby, it will be determined at what point which part has to be maintained.

The listed points are relevant for an optimized dimensioning of the ebikes within the sharing system. In this way the availability of the ebikes will be increased permanently and the maintenance costs will be reduced to a minimum. This leads to an improved acceptance of the sharing system and at the same time it improves the economic efficiency.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Profile Origin

National R&D programme

Keywords

Technology

02009002	Hybrid and Electric Vehicles
11001	Socio-economic models, economic aspects
11007	Sports and Leisure

Market

07001004	Sporting goods, hobby equipment and athletics clothes
07006	Other Consumer Related (not elsewhere classified)
09001003	Leasing of railcars, buses, cars, etc.
09001007	Other transportation

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

Industry partners, operators of a sharing system as well as other universities with a similar research topic are being sought for technical cooperation or a joint research project.

Type of Partnership Considered

Technical cooperation agreement
Research cooperation agreement

Technology Offer

Integrating route planning web cloud service

Summary

A group of freelancers, working in Bavaria, has developed an open source route planner and offers this software as the cloud service "Direction Application Programming Interface (API)" including consultancy service. The high flexibility of usage terms, the pricing and the highly adaptive open source software itself makes its greatest advantage. The software is already on the market. They are looking for companies to set up technical agreements.

Creation Date 03 December 2015
Expiration Date 09 December 2016
Reference TODE20150507001

Details

Description

A group of freelancers, working in Bavaria, has developed an open source route planner and offer this software as the cloud service "Direction Application Programming Interface (API)" including consultancy service.

The Directions API consists of a Geocoding API, a Routing API, a Matrix API and an Optimization API. The Routing API e.g. calculates the best path between two locations for various vehicles like cars or motorcycle, optionally with turn instructions and elevation data. Those profiles could be integrated and adapted to special needs.

The Optimization API calculates the best tours for many locations and vehicles, depending on the constraints like time windows, skills of the driver and more. This is particularly important for the delivery logistics for field staff. The Optimization API is subject to strong development.

The Matrix API is a very fast method to calculate many distances between many locations. This is useful and important for logistic software providers and for the Optimization API, to find out the best sequence for locations.

The Routing Matrix and the APIs are comparable to the most existing providers and even outperform many of them in various scenarios.

The Geocoding API, although with world wide support, is tuned towards addresses in France and Germany and turns addresses into useful coordinates for many geo-related applications or for the other APIs.

The whole Directions API can be self-hosted or hosted by us and is therefore adaptable to specific needs. This makes routing simple, fast and flexible. The use is possible for any application, including navigation or optimization of mobile assets, from outdoor planning to optimization in logistic software, from touristic app to ridesharing websites.

The core of the products is the fast and flexible routing engine using Open Street Map data and a vehicle routing engine. With these tools we've built a lightweight Directions API for heavy routing problems.

Several companies already use this Directions API in different projects with worldwide coverage for driving, walking and biking.

We are looking for partners and projects in different fields like logistic, tourism sector, urban planning, in automotive, for app outdoor developer in the need of a cost effective route planning Software or Expertise.

As partners we are looking for start-ups, SMEs or large companies with the aim to test, to make a further technical development, improvement of the software and implementation in further/new applications (commercial agreement with technical assistance or technical cooperation).

Advantages and Innovations

The highly adaptive nature of the open-Source-Software and the speed make its biggest advantages over the existing providers like Google Maps Directions/MatrixAPI, Nokia HERE or MapBox. Furthermore low license costs and the extraordinary performance of the software itself, especially when hosted locally, show its value for small and medium sized companies. Also the high flexibility of usage terms, the pricing and the highly adaptive open source software itself makes its greatest advantage with usage in navigation application or logistics industry. The software is already on the market.

Stage of Development

Already on the market

IPR Status

Copyright

Profile Origin

Private (in-house) research

Keywords

Technology

01003006	Computer Software
01004002	Applications for Tourism
01004003	Applications for Transport and Logistics
11003	Information and media, society

Market

01006004	Communications services
02007007	Applications software
02007015	Integrated software
08006001	Process control and logistics
09001002	Trucking

NACE

J.62.0.1	Computer programming activities
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

We are looking for partners from different fields like logistic, tourism sector, urban planning, in automotive, for app outdoor developer in the need of a cost effective route planning Software or Expertise. As partners we are looking for start-ups, SME or large concern with the aim to test, to make a further technical development and improvement of the software and implementation in further/new applications.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Personal ventilation system to be applied in offices, call-centers, schools, etc.

Summary

A scientist from a Polish university developed a system for personal ventilation to be applied in e.g. offices/ large space offices, call-centres, schools, etc. Such a system supplies fresh outdoor air directly to a user's breathing space. The solution prevents sick building syndrome associated health problems and improves work quality and efficiency. The university is interested in establishing know-how licensing agreement with companies representing HVAC (heating, ventilation, and air sector).

Creation Date	12 November 2015
Expiration Date	08 December 2016
Reference	TOPL20151109002

Details

Description

A scientist from a Polish university developed a personal ventilation system which can be applied in offices/large space offices, call-centres, schools, etc.

The solution addresses the issue of sick building syndrome (SBS), and work satisfaction and work efficiency. The syndrome is linked to poor indoor air quality and may cause acute health and comfort problems such as sensory irritation of the eyes, nose, throat; neurotoxic or general health problems, skin irritation, nonspecific hypersensitivity reactions, infectious diseases and odor and taste sensations. The syndrome affects employees' work quality and work efficiency. A World Health Organization (WHO) report stated that approximately 30% of all buildings may be subject of complaints related to SBS.

The solution proposed by the scientist is to remedy the SBS-related issues by supplying fresh outdoor air directly to a user's breathing space. Owing to filtration and temperature control systems built into the solution the air quality is several times higher than in case of traditional HVAC systems. In addition, users can set a desired fan direction and air speed which enables them to adjust the immediate micro-climate according to their individual preferences without disturbing the micro-climate of their neighbours.

The issue of personal ventilation was tackled by the scientist from several angles. Numerous problems were raised regarding traditional ventilation systems:

- changing the set temperature at one workstation influences the air stream at other workstations,
- no relationship between in-blown air and preferences of individual users,
- no possibility of setting the temperature by individual users.

In addition, in current systems of personal ventilation, pattern of in-blown air is irregular.

To remedy the above problems, the scientist designed a model of a personal ventilator in Autodesk Simulation. Several air-blow patterns were analysed and the one with the most regular air-blow pattern was selected. Next, a prototype of the ventilator was made and lab-tested. The tests confirmed the results obtained in Autodesk Simulation.

The scientist developed further 10 ventilators. At present, these ventilators are being tested in the offices of the university. User opinions and work parameters are collected in order to further improve the solution.

The scientist would like to pursue know-how licensing agreements with companies representing HVAC sector.

Advantages and Innovations

The solution offers numerous advantages:

- elimination of sick building syndrome
- improvement of work quality, efficiency and satisfaction
- air quality several times higher than that supplied by traditional HVAC solutions
- low energy consumption in relation to traditional HVAC solutions

Stage of Development

Field tested/evaluated

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

10002001	Indoor Air Pollution/Treatment
11004	Technology, Society and Employment

Market

08004001	Air filters and air purification and monitoring equipment
09007003	Distribution of building products and systems

NACE

P.85.4.2	Tertiary education
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The scientist would like to find industrial partners/ companies representing HVAC sector to conclude know-how licensing agreements to introduce the solution to their day-to-day activities.

Type and Size of Partner Sought

SME 11-50,251-500,SME 51-250,>500

Type of Partnership Considered

License agreement

Technology Request

Bracelet with tracking device

Summary

A company from Latvia is looking for bracelet for children and elderly with embedded tracking device. Bracelet should be safe for children, preferably with embedded alarm system if bracelet is removed. Tracking device in bracelet should utilize GPS location and data transfer by ordinary GSM network. Company is looking for commercial agreement with technical assistance.

Creation Date 07 December 2015

Expiration Date 08 December 2016

Reference TRLV20151202001

Details

Description

A GPS tracking unit is a device, normally carried by a moving vehicle or person, that uses the Global Positioning System (GPS) to determine and track its precise location, in certain time intervals (1- 300sec). The recorded location data should be stored within the tracking unit, or it may be transmitted to a central location data base, or Internet-connected computer-smart phone, using a Global System for Mobile communications (GSM), radio, or satellite modem embedded in the unit. The technology should allow to track the object on the map in real time or later analyze the obtained tracking results.

The tracking device should have alarm function, that can be activated by pressing button or activates automatically when the bracelet is removed or damaged.

Together with the bracelet the technology developer should offer the data tracking software for server and smart-phone based systems.

Technical Specification or Expertise Sought

The company is looking for technology available already on the market, field tested and ready to use, with all the necessary certification. Desired device should be approximately 15 cm long with a variable width, comfortable for children. Preferably is should be made from silicone or similar material.

Device should include the GPS and GSM systems, alarm button. It should be waterproof and shock resistant.

Stage of Development

Field tested/evaluated

Keywords

Technology

01003014	Internet Technologies/Communication (Wireless, Bluetooth)
01006008	Satellite Technology/Positioning/Communication in GPS
01006009	Signal Processing
11009	Creative products

Market

03008004	Other electronics related (including alarm systems)
07004008	Other consumer products
07005006	Other consumer services (including photo processing)

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 company is looking for technology developer for bracelets with embedded tracking and transmitting system. The technology developer should be able to demonstrate the desired technology. Company is considering commercial agreement with technical assistance, with at least 3 year services agreement.

Type and Size of Partner Sought

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

Type of Partnership Considered

Services agreement
Commercial agreement with technical assistance