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***Medio Ambiente:
Tecnologías Ambientales***

Technology Offer

Complete on-site synthetic turf recycling solution.

Summary

An Estonian SME has developed a mobile synthetic turf recycling unit. It is the first mobile synthetic turf recycling system that performs recycling process on-site and off-the-field. The main competitive advantage is that unit enables to recycle synthetic turf to raw materials, thus reducing the total life-cycle costs of the installations, offering a cost-effective and sustainable end-of-life management solution. Types of cooperation: technical cooperation, joint venture or licence agreement.

Creation Date	02 December 2015
Expiration Date	03 December 2016
Reference	TOEE20151202002

Details

Description

The Estonian SME with over 20 years of experience in the field of sport installations has developed an innovative way for synthetic turf removal and recycling. Conventional synthetic turf recycling technologies enable only low-efficiency infill separation from the artificial grass, which are also time consuming, expensive and unsustainable.

The offered technology is the most advanced complete synthetic turf removal system that consists of the following processes.

- Old synthetic turf removal: artificial grass removal process done within 8 hours. The removal tool cuts the entire full-size football pitch to only 30-rolls, compared to alternatives 120-130 rolls, enabling to remove the old synthetic turf with minimum damage. The artificial grass is rolled up and recycled into separate materials on-site.
- Infill separation process: old grass, drying and thermoplastic elastomer are separated from sand. Process is done on-site and recycled materials can be reused in new turf installation. Separation process is done in 3 days.
- New grass installation: installation process in 3 days.
- Filling new grass with recycled sand and thermoplastic elastomer from old turf.
- The mobile recycling line is fitted into only a 20-foot sea container, containing all necessary equipment and ensures the mobility of the system.

The solution is currently available on the market. The objective of the cooperation is to find partners for further development of the solution and partners for licencing the offered technology.

Advantages and Innovations

The developed technology has clear advantages over alternative synthetic turf removal systems. No comparable solution exist on the market in terms of cost-effective, quickness of removal and environment friendliness.

Environmental advantages

- Enables reuse about 95% of the used materials in new artificial grass application or as a raw material in other industries together with.
- 100% infill materials and polyethylene reclaim.
- 4x faster turf removal enabling re-installation.
- 6x reduced transportation needs, leading to 95% less CO2 emissions.

Cost-efficiency advantages

- Offered solutions removes the old turf in just 1 day, compared to competitors 3-4 days. The entire turf can be recycled into separate materials (sand, rubber, polymers) in 3 days off the pitch, thus increasing the effectiveness and speed of the whole field renovation process.
- A full-size football field renewal process can be completed within 7 days (counting only working hours), while competitors do the job in minimum 10-12 days.
- Compared to closest competitors, our solution increases the old turf removal speed by up to 4-times, ensures 2-times better infill separation, and reduces the entire football field renewal process time by up to 2-times.

Therefore in total, offered technology helps to lower the synthetic turf end-of-life management costs by up to 40-50% and increase the artificial grass sustainable management recycling rates.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

02005004	Packaging for materials
02007014	Plastics, Polymers
10002013	Clean Production / Green Technologies
10003004	Recycling, Recovery

Market

07001005	Sport facilities (gyms and clubs)
09007005	Facility management companies

NACE

F.43.9.9	Other specialised construction activities n.e.c.
M.71.1.2	Engineering activities and related technical consultancy

Open for EOI : **Yes**

Client

Languages Spoken

English

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: artificial turf installation/removal companies, or companies with expertise in manufacturing of synthetic fibres, polymers technology or plastic recycling.

The role of the partner in a case of licensing agreement: acquiring licence for using the technology.

The role of the partner in a case of technical cooperation agreement or joint venture agreement: joint further development and adaptation of the machines for applications. Cooperation in tasks like: improvement of blades epilator system, synthetic turf removal system and/or infill separation, drying and packaging module.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Technical cooperation agreement

Joint venture agreement

Technology Offer

Highly efficient fully automatic flue gases filtration system

Summary

An Estonian SME specialized in development of flue gases filtration systems, has created a solution that reduces flue-gas emissions by bonding acidic flue gases through chemical reaction inside the filtration system. The possibilities for applying technology on a commercial scale range from large industrial application industrial combustion processes and shipping industry to private household heating systems. The company is open to join venture, technology licensing or technical cooperation.

Creation Date	02 December 2015
Expiration Date	14 December 2016
Reference	TOEE20151202003

Details

Description

The SME was founded in 2000 and today the company's main focus is the development of flue gases filtration system. It is a privately owned Estonian company and has operated mainly in EU, with the majority of revenues coming from Estonian market. In addition to flue gases filtrations SME has been active in retail and marketing business.

The Estonian company has developed cost-effective solution for reducing the environmental impact of flue gases. Technology is based on environment friendly patented substance and a fully automatic filtration system.

Flue gases represent major threat on public health and environment if not removed properly. There are several methods available for the purification of the flue-gases. Nevertheless, currently widely used flue gases purification technologies are lacking in scalability, demand high investment and operational cost.

Working principle

The offered technology is based on chemical reaction by which the flue gases will be purified from harmful substances like NO_x, SO₂, CO₂, particulate matter, etc. The substance bonds harmful acidic flue gases through chemical reaction inside a filtration system. The substance is mixed with pure water or sea water and the dilution can be used for purification of emissions from all fossil fuels combustion processes. The used liquid is harmless and non-toxic and can be utilized into sewage like regular water.

The filtration system, where the chemical reaction takes place, can be installed to various applications for industries or private users. The filtration system is low maintenance as the system is capable of self-cleansing.

Another major advantage of the technology is the high scalability, it is suitable for most of used heating fuels (coal, oil, shale, wood etc). SME has identified three most suitable and specific user groups for utilizing this technology: private household heating systems, industrial

combustion processes and shipping industry. Although, companies from various fields, who are looking for a cost-effective and environmentally friendly flue gas purification solution could benefit from a low-cost installation, low maintenance, significantly reduced expenses for utilization of the wastes and improved filtration of the flue gases.

The technology has been field tested and is looking to be finalized. The SME is looking for partners to license the technology, or industrial partners to continue the development of the filtering system under a research cooperation or joint venture agreement.

Advantages and Innovations

The proposed technology has several advantages in terms of cost-efficiency and environment friendliness compared to alternative solutions available.

- Easy installation and retrofit solution, the novel filter fits older industrial and private household chimneys
- Scalable and suitable for wide range of applications from household boilers, engines to large industrial plants.
- Simultaneous purification of NO_x, SO_x and particulate matter from flue gases. Alternative solution require specific separate technologies for SO_x and NO_x.
- Tested and validated technology; proven efficiency in industrial and small scale settings
- Low environmental impact, no need for additional purification of the waste water
- No harmful substances generated
- Low initial investment and reduced operating costs
- Most cost-effective flue gases purification system available at the market. 30-60% savings for industrial users compared to current filtration systems.

Stage of Development

Field tested/evaluated

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

Private (in-house) research

Keywords

Technology

10002002	Outdoor Air Pollution/Treatment
10002003	Capture and Storage of CO ₂
10002013	Clean Production / Green Technologies

Market

08004001	Air filters and air purification and monitoring equipment
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NACE

M.74.9.0	Other professional, scientific and technical activities n.e.c.
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Open for EOI : **Yes**

Client

Languages Spoken

English
Russian

Partner Sought

Type and Role of Partner Sought

Type of partner sought: industry or academia

Activity: the partner should be active in the manufacturing or operating/having special expertise in sectors such as industrial boiler technology development, shipping industry, household heating systems, etc., where this technology can be used.

Task to be performed by the partner if a manufacturer:
sought partner should be interested in licensing the technology and/or possess know-how support for improving on filtration systems.

Task to be performed by the partner sought if a university or research centre: jointly develop and improve reagent substance and/or filtration system.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Technical cooperation agreement
Joint venture agreement

Technology Offer

Innovative engineering and ecodesign services to increase performance of industrial processes

Summary

A French SME offers unique expertise in integration and optimization of industrial processes like technical studies, expertise (fluid networks, risk analysis, heat exchange calculations...) to processes eco-design and engineering (techno-economic and environmental feasibility, onsite implementations...). The services are new as it combines process engineering and eco-innovation. The SME is looking for industrial partners for research, technical cooperation, manufacturing or commercial agreement.

Creation Date 27 November 2015
Expiration Date 07 January 2017
Reference TOFR20151127001

Details

Description

The French SME is specialized in design office, technical assistance and advice in eco-design and eco-innovative processes for chemical manufacturing, process engineering, mechanical engineering, fluid systems and ventilation and clean technologies. Its mission aims at assisting industrial companies at technical, economic, environmental and social levels, from the first idea/initial concept to the process definition, right up to the successful implementation.

The expertise of this SME is about the vertical integration of all areas from process engineering to turnkey solutions development.

Processes eco-design is based on a LCA (Life Cycle Assessment) study, identifying which parts of the system needs improvement and assessing the levers to optimize and avoid pollution transfers.

The solutions addressed by the SME fields of expertise:

- Optimize operation costs;
- Demonstrate added value of environmental excellence;
- Base communication on concrete indicators;
- Define a development strategy of development;
- Link economic growth and sustainable development.

The company's skills include:

- Industrial sector implementation (waste management, establishment...);
- Environmental improvement of a process or product;
- Optimization of a process or product;
- Clean technologies solutions;
- Communication on environmental efficiency.

The SME has a Clean Technologies Department, labelled Young Innovative Company, which has an extensive experience in LCA (Life Cycle Assessment) application and eco-design of technologies.

In order to be able to work with a company on a technical cooperation, research, manufacturing and commercial agreement, potential partners should accept to deliver the technical, economic and environmental data required to analyse and optimize industrial processes.

The company is also interested in working with a research team to work on a research cooperation agreement (H2020, EUREKA, COSME...).

Advantages and Innovations

According to the ISO 14040 and 14044 standards, a LCA is carried out in four distinct phases:

- Goal and scope;
- Life cycle inventory;
- Life cycle impact assessment;
- Interpretation.

Its specific services developed in partnership with French leading research platforms are:

- Processes LCA - study and selection of the BAT (Best Available Technologies);
- Expertise in waste treatments and recovery;
- Development of turnkey solutions.

This French SME is currently involved as partner or coordinator into 6 national projects and 1 FP7 in fields of waste treatment, water management and energy from biomass. In this framework, the SME provides its customers unique knowledge base developed as part of its R&D projects and technological innovation. This company:

- Invests 30% of its payroll in R&D;
- Develops hydrothermal oxidation technology;
- Has a significant network of expert partners in innovative technology.

Added value:

- Global vision on the whole life cycle;
- Support through until implementation;
- Development of the environmental value of the project;
- Techno-economic optimization of the process.

Its approach:

- Global diagnosis of the activity to focus and act on the high added value items;
- LCA coupled with a technical expertise and an economic analysis to develop an action plan on:

Water: management and treatment;

Waste: treatment and recovery;

Energy: optimization and recovery;

Material: optimization of the manufacturing process and recovery.

- Proposal for workable technical and financial solutions;
- Support for implementation.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

10002007 Environmental Engineering / Technology
10002015 Life Cycle Assessment

Market

06003006 Combined heat and power (co-generation)
06003009 Biomass and Biofuels
08004003 Water treatment equipment and waste disposal systems
08004004 Other pollution and recycling related

NACE

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

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Languages Spoken

English
French
Spanish

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : industry, research and development organisations, university
- Specific area of activity of the partner : manufacturing company (heavy and fine chemicals, food, paper mill, electrics, plastics, textile...), waste (biowaste, WEEE, SWTP's sludge...) and wastewater treatment, eco-innovative technology development
- Task to be performed : the partner should accept to deliver the technical, economic and environmental data required to analyse and optimize industrial processes

Type of Partnership Considered

- Manufacturing agreement
- Commercial agreement with technical assistance
- Technical cooperation agreement
- Research cooperation agreement

Technology Offer

A Korean SME has developed a technology of location control solution.

Summary

A Korean SME has developed a location tracking technology that can be used indoors and outdoors with efficient batteries. Technology contributes expansion of the social safety net using beacon and bluetooth in limited space. It determines the location to control access, manage materials, and protect valuables. It prevents a missing child, and stolen objects at a hospital, mart, park, etc. They are looking for partners available for licensing agreement, joint venture, and financial resources.

Creation Date 17 November 2015
Expiration Date 07 December 2016
Reference TOKR20151117001

Details

Description

Many people worry about expensive bicycle missing, infant kidnapping, pet loss etc. Also, they want to live in a safe society.

This Korean SME is a startup whose goal is to give us a sense of security about the accident that may be expected well around us. It keeps your family and valuables safe by telling where they are and making sure where they should be. So, the company has developed a new location tracking system which shows where the object is located by using beacon, scanner and smart phone. A beacon is an intentionally conspicuous device designed to attract attention to a specific location. Beacons can also be combined with semaphoric or other indicators to provide important information. For instance, it sends low energy bluetooth to scanner to get the signal to position.

Already the technology is used at apartments, hospitals, buildings in Seoul. And also it is now under negotiation with security enterprises.

The company is open to any types of collaboration. But specifically, they want to transfer their technology to Asian countries(such as China, Japan, Taiwan) through the licensing agreement and financial resources.

Advantages and Innovations

- Optimal positions and accuracies : Specific distance that a user wants to measure can be displayed in real time
- Efficient management server
- Battery saving technology : easy and simple to operate

- Have competitive price

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

CIP

Keywords

Technology

01006005	Network Technology, Network Security
06005002	Sensors & Wireless products
10002010	Remote sensing technology

Market

01004003	Communications processors/network management
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NACE

C.26.5.1	Manufacture of instruments and appliances for measuring, testing and navigation
J.63.1.1	Data processing, hosting and related activities

Open for EOI : **Yes**

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Languages Spoken

English

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : Companies or investors
- Specific area of activity of the partner : Any partners who are interested in this technology
- Task to be performed : Licensing agreement, joint venture or financial resources

Type and Size of Partner Sought

>500

Type of Partnership Considered

License agreement
Financial agreement
Joint venture agreement

Technology Offer

Recovery of lead ions from aqueous waste solutions

Summary

A Romanian university has developed and patented an innovative method for the recovery of lead ions from aqueous waste solutions. The Romanian university is looking for foreign SMEs that are active in the field of industrial processes of the galvanic, electric and related industries. The Romanian university is offering a license and it is also looking for partners to work together for the further technological development.

Creation Date 18 December 2015
Expiration Date 18 December 2016
Reference TORO20151116001

Details

Description

Located in the North-West part of the country, close to the Hungarian border, a Romania university has developed a method for the recovery of divalent lead ions from aqueous waste solutions resulted within the industrial processes of the galvanic, electric and related industries. The galvanic industry, the electrical and related industries use in an extensive manner the technology of lead electrochemical coating and following this industrial process the result is the emergence of rinse waters with low lead levels, but also waste solutions with high concentrations of lead, for which the treatment and recovery of lead is imposed.

The technical problem solved by the present method relates to set-up of the optimum conditions for the purge of the waste solutions containing divalent lead ions, in concentrations of 40 ... 1000 mg/L PB_{2+} , resulted in the electrochemical processes in nitric acid and sodium nitrate conditions. The goal is both to valorificate the lead as lead oxalate and to solve the problems of environmental quality.

The method for the recovery of lead ions from aqueous waste solutions has the advantage that the aqueous residual solution are treated at room temperature, under mechanical stirring for 10 minutes, with an oxalic acid solution in concentration of 0.5 M, in an excess of 10 ... 22% as compared to the required stoichiometric, at a pH between 4.5 and 5.5. The precipitated lead oxalate is settled, filtered, washed with distilled water, dried at room temperature, finally resulting a 98, 88% yield anhydrous crystalline lead oxalate, which can be subsequently subjected to an operation of low thermal decomposition at a temperature of 320 °C so as to obtain divalent lead oxide.

Having in view the fact that within the industrial processes of the galvanic, electric and related industries one uses extensively the technology of lead electrochemical coating, the Romanian university proposes this method for the recovery of lead ions and is offering a license to foreign SMEs active in the field of industrial processes of the galvanic, electric and related industries; the university is also looking for partners to work together for the further technological development.

Advantages and Innovations

- the method uses as precipitation reagent the oxalic acid, which is cheap and accessible;
- the time for obtaining the crystalline lead oxalate is considerably reduced as compared to the time corresponding for the precipitation of the amorphous forms of known lead salts;
- decantation, filtration and washing speed of the precipitate are superior as compared to the amorphous forms used within other methods;
- considerable reduced volume for the crystallized precipitate;
- high purity of the lead oxalate;
- crystalline and anhydrous form of the recovered product;
- chemical stability to atmospheric factors (humidity, heat, light, carbon dioxide);
- the residual concentration of the lead ions is below 1 mg / L, according to SR ISO 9822;

Stage of Development

Field tested/evaluated

IPR Status

Patents granted

Profile Origin

National R&D programme

Keywords

Technology

02002002	Coatings
02002015	Surface treatment (painting, galvano, polishing, CVD, ..)
02007010	Metals and Alloys
10002012	Remediation of Contaminated Sites
10004001	Industrial Water Treatment

Market

08001007	Coatings and adhesives manufactures
08001012	Speciality metals (including processes for working with metals)
08004002	Chemical and solid material recycling
08004003	Water treatment equipment and waste disposal systems
08004004	Other pollution and recycling related

NACE

M.72.1.1	Research and experimental development on biotechnology
M.72.1.9	Other research and experimental development on natural sciences and engineering

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Languages Spoken

English

Partner Sought

Type and Role of Partner Sought

The potential partners could be any SME active in the field of galvanic, electric and related industries interested in a license agreement, so as to use the method for the recovery of divalent lead ions from aqueous waste solutions resulted within the industrial processes and thus preserving the environment.

Having in view the positive impact of this method on the environment, the potential partner could also be active in the field of industrial water treatment and/ or remediation of contaminated sites. Concerning the technological cooperation agreement sought, would also like to find a foreign partner for the further technological development, by improving the existing method.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Technical cooperation agreement

Technology Offer

Magnetically-driven Fe₃O₄@Ag nanocomposites with a magnetic core and size tunable silver nanoparticles

Summary

A Czech research centre has developed a technology for a synthesis of magnetic Fe₃O₄@Ag nanocomposites with a magnetic core. This material possesses a remarkably high antimicrobial effect against a wide range of bacterial strains and yeasts. Material can be also successfully applied as a substrate in surface enhanced Raman spectroscopy. The university center searches for a public or private partner for a license or commercial agreement with technical assistance.

Creation Date 10 December 2015
Expiration Date 12 January 2017
Reference TOCZ20151210001

Details

Description

Presented Fe₃O₄@Ag nanocomposite developed by the Czech university presents an unique solution for a treatment of bacterial contamination using novel biocompatible magnetic core and size tunable silver nanoparticles.

The nanocomposite is multimodal in action. This includes simply to obtain extraction of the material using magnetic force with remarkably high efficiency, tunable properties of present silver nanoparticles with a consecutive influence on the possessed antimicrobial effect.

Ecotoxicological experiments showed that Fe₃O₄@Ag nanocomposite has a high antimicrobial activity. Values of minimum inhibitory concentration (MIC) for yeast fall into a range 0.9 - 12.6 mg/L, and MIC values for bacteria are lower than 50 mg/L for all tested strains.

The material possesses a remarkably high antimicrobial effect against a wide range of bacterial strains and yeasts, including Enterococcus, Pseudomonas, Escherichia and Candida species. Antimicrobial effect is utilizable in various cases, including water treatment small and medium-sized enterprises (SMEs), cleaning up of medicinal facilities, etc.

Activity in surface enhanced Raman scattering (SERS) is utilizable in a development of analytical procedures for a detection of various chemical targets.

The university center searches for a public or private partner for a license or commercial agreement with technical assistance.

Advantages and Innovations

The offered material is unique in terms of biogenic properties of its magnetic core and high antimicrobial activity of immobilized silver nanoparticles, demonstrated on a wide range of bacteria and yeast strains.

Main advantages of this products are as follows:

1. Presented nanocomposite is magnetically driven. This means that the material can be extracted from the sample using simple magnetic force with ultra-high efficiency.
2. Incorporated magnetic core is biocompatible, and is thus applicable in bio-medicinal cases.
3. Present silver nanoparticles can be tuned to achieve desired shape and size.
4. Present silver nanoparticles have high antimicrobial activity.
5. Material has a high activity in surface enhanced Raman spectroscopy. Material can be thus utilized as a suitable substrate in many procedures for analysis of chemical targets including nucleic acids and proteins.

Stage of Development

Under development/lab tested

IPR Status

Secret Know-how

Profile Origin

National R&D programme

Keywords

Technology

05005	Micro- and Nanotechnology
06004	Micro- and Nanotechnology related to Biological sciences
10002007	Environmental Engineering / Technology
10004001	Industrial Water Treatment
10004008	Water Resources Management

Market

04017	Micro- and Nanotechnology related to Biological sciences
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NACE

E.36.0.0	Water collection, treatment and supply
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Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Languages Spoken

English

Partner Sought

Type and Role of Partner Sought

The university research centre searches for a public or private partner for a license or commercial agreement with technical assistance.

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

License agreement
Commercial agreement with technical assistance

Technology Offer

Off-grid affordable prefabricated zero-carbon eco-home that integrates novel energy efficient features

Summary

A UK SME has designed an affordable, innovative eco-home that does not need connection to electricity, gas, sewerage or water. The design not only minimises energy and water use but integrates a number of novel features that make off-grid living possible. The eco-home would suit social housing needs or holiday park dwellings as well as private builders interested in new build. The SME is looking for a partner for joint venture and / or financial agreements in order to build a prototype house.

Creation Date 12 November 2015
Expiration Date 03 December 2016
Reference TOUK20151112001

Details

Description

Designing and building an off-grid eco-home is a significant challenge for a number of reasons. The house needs Passivhaus standards in order to achieve very low energy use and this state of the art technology comes with significant expense. Modern living in a traditional sense also uses a large number of power-hungry appliances which presents its own challenges. A UK SME has re-thought the whole concept of the modern eco-house and through clever integration and some novel technology, has developed a truly affordable solution.

The design focuses first on reduction of energy demand. This takes into account alternatives to power hungry appliances for cooking and washing clothes, as well as the fabric of the building itself which is both well insulated and has significant thermal mass.

The design then integrates a number of key energy and resource efficient technologies such as heat recovery, modern composting toilet, grey water storage and allies these with novel solar PV panels, battery storage and biomass heating.

The market for this eco-house may include holiday homes providers, extensions to houses, public sector housing or private self-builders. In order to prove this innovative concept, the SME is looking for a partner to help build a prototype house. This partner could be a small construction company, holiday park providers, public sector bodies or private individuals and could take the form of a joint venture or financial agreement.

Advantages and Innovations

- Factory pre-fabricated, allowing the entire house to be shipped to site using two lorries. Takes only one day to assemble on-site and can be disassembled in the same time.
- Requires no foundations and very little groundwork – a level plot with railway sleepers would

suffice. A grey water soak-away is required.

- Power supplied by novel solar PV panels
- A state-of-the-art battery bank which has a charge/recharge cycle efficiency of 97% (compared with 80% when using lead acid batteries)
- Multiple heavy duty, low frequency, high efficiency inverters providing reliable sine wave AC power
- Heat is actively collected from the surrounding environment (sunshine, ambient air and even rainwater)
- Almost 9 cubic meters of thermal mass stores the collected heat and smooths out the fluctuations in weather conditions
- Heating backup is provided by a wood-burning (multi-fuel) stove
- Low-emissivity strengthened double glazing used throughout, fitted using anti-thermal bridging frame system
- Air-sealed construction with unique and innovative active heat-recovery ventilation, whose primary purpose is humidity control when cooking, showering and/or drying clothes
- Passive heat recovery technology is employed to maintain air-freshness
- Built from reclaimed boat-grade heavy duty steel with copious insulation inside and out. Lifetime guarantee on structural integrity and absence of corrosion.
- Low power appliances and LED lighting throughout, including halogen oven, induction hob, steam restricted kettle, heat recovered fridge/freezer, low power microwave oven, high efficiency washing machine (minimal water consumption), high efficiency dishwasher (minimal water consumption)
- Water supply provided by rain water capture and air moisture extraction with up to 5000 litres of filtrated and UV-sterilised water.

Stage of Development

Concept stage

IPR Status

Design Rights

Profile Origin

Other

Keywords

Technology

004008	Energy efficiency
02006001	Materials, components and systems for construction
04005004	Photovoltaics
10002004	Climate Change mitigation
10002013	Clean Production / Green Technologies

Market

06003008	Other alternative energy
06006001	Thermal insulation
06006003	Heat recovery
09007001	Construction companies
09007004	Engineering and consulting services related to construction

NACE

F.41.1.0	Development of building projects
F.41.2.0	Construction of residential and non-residential buildings
F.43.9.9	Other specialised construction activities n.e.c.

Open for EOI : **Yes**

Dissemination

Send to Sector Group
Intelligent Energy

Client

Languages Spoken
English

Partner Sought

Type and Role of Partner Sought

Type of partner sought: SME or larger, private or public sector

Specific area of activity of the partner - holiday parks, off-site construction, financing

Task to be performed by the partner sought - jointly develop, build, test and promote the concept in order to develop future sales opportunities

Type of Partnership Considered

Financial agreement
Joint venture agreement

Technology Offer

Pheromone insect traps suitable for capturing bark and wood boring beetles with the purpose of monitoring and inspection of forest protection

Summary

Established Slovak research centre has developed highly effective pheromone insect traps suitable for capturing bark and wood boring beetles with the purpose of monitoring and inspection of forest protection. The pheromone trap is available in two different shape variants, both providing high quality of collected samples, and 20 - 30% increase in collecting efficiency compared to currently available technologies. The centre seeks companies interested in financial agreement or licensing agreement.

Creation Date	19 November 2015
Expiration Date	08 December 2016
Reference	TOSK20151119001

Details

Description

Established research centre situated in the central Slovakia active in the field of forestry and silviculture is offering a pheromone insect trap.

The offered pheromone insect trap is available in two variants:

Variant 1 is a funnel insect trap. It consists of 12 connected funnels, with the bottom funnel adapted to support the collection container and to disable the escape of captured bark and wood boring beetles. All funnels are attached with three separate wire ropes. The funnel design provides uniform collecting efficiency from every direction. The collection container is sufficiently large and adjusted to water drainage, which is one of the main problems with existing models of pheromone insect traps.

Variant 2 is a cross vane insect trap made of resistant and durable foil. It has a large impact surface and is easily foldable. The foil is attached on two crossing metal structures, which can be disassembled for compact storability. One large funnel is placed on the bottom side of the trap, and is used to collect the captured bark beetles into the collection container. The collection container is based on the same design as in Variant 1. In future, it can be supplemented with a scale of the amount of collected bark beetles, which would facilitate the operation of the insect trap.

Pheromone insect traps, particularly bark and wood boring beetle traps, are currently being used for monitoring and inspection of the population density of bark and wood boring beetles in forest environment. The purpose is to obtain samples for the research in the field of forest

protection. The introduced technology represents innovative pheromone insect trap available in two design types, both providing higher collecting efficiency and higher quality of collected samples. Prototypes are currently being tested in the forests of Vysoké Tatry, Slovakia.

For this technology, the centre seeks companies interested in technology purchase (cooperation via financial agreement) or in manufacturing and commercialization (cooperation via licensing agreement).

Advantages and Innovations

- 20 - 30% increase in collecting efficiency compared to available technologies
- High quality of collected samples
- Collection container adjusted to water drainage
- Storability
- Made of light and durable materials

Stage of Development

Prototype available for demonstration

IPR Status

Patents granted

Profile Origin

Other

Keywords

Technology

07002001	Forest technology
07002004	Silviculture, Forestry
10002006	Ecology
10002007	Environmental Engineering / Technology

Market

08004004	Other pollution and recycling related
09005	Agriculture, Forestry, Fishing, Animal Husbandry & Related Products

NACE

A.02.1.0	Silviculture and other forestry activities
A.02.4.0	Support services to forestry
M.72.1.9	Other research and experimental development on natural sciences and engineering

Open for EOI : **Yes**

Client

Languages Spoken

English
Slovak

Partner Sought

Type and Role of Partner Sought

- Type of partner sought:

A Slovak research centre is interested in technology transfer with companies active in the field of forestry and environment protection. For additional details, please request the contact data. The centre is seeking partners for collaboration on any of the following levels:

- Technology purchase - financial agreement
- Manufacturing and commercialization under license agreement

Specific area of activity of the partner:

Forestry, Forest protection, Environment protection

- Task to be performed:

Cooperation via financial agreement (purchase of the technology), or via licensing agreement (manufacturing and commercialization via license agreement).

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
Financial agreement

Technology Offer

Patented seismic isolation and dissipation technology for pallet racking systems

Summary

An Italian company has developed and patented a technology able to protect racks and its contents from earthquakes. The system isolates the structure from seismic forces and dissipate the energy transmitted to them. The system had been developed for pallet racking and it can be installed also on heavy machineries and industrial structures. The company is looking for an European partner for commercial agreement with technical assistance, joint venture or licence agreement.

Creation Date 20 November 2015
Expiration Date 14 December 2016
Reference TOIT20151118003

Details

Description

Industrial and commercial companies could have high losses during earthquakes, because industrial steel structures (and not only) are commonly not designed to resist to specific seismic forces, preserving machineries, goods and people from the effects of earthquakes.

Machineries and structures are the business' production core and the company should prevent their damage.

Current goal in industrial seismic engineering is to reach the economical sustainability of an advanced seismic isolation system able to compete with traditional solutions.

The company has developed a new device able to protect racks from earthquakes, therefore avoiding damages to warehouse structures, merchandise and operators.

The isolation system ensures that the ground motions are not transmitted to the overlying structure through the cut of the forces introduced by the earthquake.

The device is composed of three main parts:

1. The isolation system; it is placed between the ground and the columns of the upright of the rack structure. It is anchored to the floor and permits the free movement of the rack during an earthquake.
2. The dissipation device; it controls and restrain the seismic action reducing the acceleration on the rack structure and on its merchandise.
3. The up-lift; it avoids the structure to over-turn and limits the rack movements.

The technology is applied to the pallet rack structures and the company is already finding new application fields such as steel structures, heavy equipment and winery racks.

The company has patented the technology and is looking for new partnerships. In particular it is searching an European partner with expertise in industrial equipment or civil and industrial engineering and is interested in signing a commercial agreement with technical assistance, joint venture or licence agreement.

Advantages and Innovations

Advantages on the racking storage systems:

- Neutralizes the seismic effect on the rack structures
- Doesn't require reengineering of rack structures
- Radically reduce the risk of falling merchandise
- Doesn't reduce the storage space
- Adapts to all shelving
- Retrofits on used rack structures
- Improves safety of the workplace and the public spaces
- Protects racks from accidental forklift impact
- No maintenance needed

Additional advantages on industrial structures and equipment:

- Reduce risk of earthquake damages on the load-bearing structures
- The isolation system is easily adaptable with new configurations for particular applications
- Permits seismic engineering without oversizing structures
- Reduce engineering costs

Innovations:

- High dissipation energy
- Large allowable displacement
- Same isolation and dissipation performance in any direction
- Installable in all kind of racks without reinforce the structure to resist to earthquakes.

Stage of Development

Field tested/evaluated

IPR Status

Patents granted

Profile Origin

Private (in-house) research

Keywords

Technology

02006001	Materials, components and systems for construction
02006005	Construction maintenance and monitoring methods & equipment
02007009	Materials Handling Technology (solids, fluids, gases)
02008003	Logistics
10002006	Ecology

Market

08003002	Hoists, cranes and conveyors
08003007	Other industrial equipment and machinery
08005	Other Industrial Products (not elsewhere classified)

08006001 Process control and logistics
09003001 Engineering services

NACE

C.25.5.0 Forging, pressing, stamping and roll-forming of metal; powder metallurgy
C.28.4.1 Manufacture of metal forming machinery

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Automotive, Transport and Logistics

Client

Languages Spoken

English
German
French
Italian

Partner Sought

Type and Role of Partner Sought

A medium – big company with a commercial presence in Europe.
Area of expertise: Industrial equipment or Civil and industrial Engineering.
The company is interested in a commercial agreement with technical assistance, joint venture or licence agreement with the partner.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance
Joint venture agreement

Technology Offer

Compact and mobile sensor system for sensitive on-site detection of individual substances in liquid samples

Summary

A Dutch monitoring tool provider, has developed an innovative sensor technology for rapid analysis of liquid samples. The system detects the presence of a selected set of substances, and measures the concentrations of these substances. The system is robust and easy to use for both inside a laboratory and in the field. The SME is offering a joint-venture-, or commercial agreement with technical assistance to industrial- or engineering companies in the water sector or other, new markets.

Creation Date 08 December 2015
Expiration Date 04 January 2017
Reference TONL20151126002

Details

Description

The Dutch SME is a provider of innovative tools for both online and sample based water quality monitoring. The company develops and produces innovative optical biosensor technology for the real-time detection of contaminants in water.

The system can be used as a mobile platform, to analyse water samples on-site. Applications include routine monitoring of water samples, e.g. for monitoring of water sources and for intake protection.

It allows identification and quantification of target analytes within 15 minutes at low ppb concentrations. Examples of applications include the detection of pesticides in drinking water, algal toxins in bathing water, mycotoxins in agricultural crops or antibiotics residues in milk. The technology is a user friendly system for cost-effective analysis of contaminants in various matrices for both lab and field applications.

The system uses the provider's awarded and patented Lab-on-Chip sensor technology and works with optical sensors coated with a biochemical interface to measure specific substances. The coated sensor chip is mounted in a field replaceable cartridge, and one sensor system can use 8 parallel cartridges, allowing the analysis of up to 8 substances in one analytical run.

The technology is a compact sensing platform designed for label-free biosensing. It utilizes optical interferometry to detect refractive index changes taking place near the surface of an optical chip. The system is delivered as a complete package including a fluidics system, electronics, an optical detection system and software. The sensor chip is housed in a cartridge which is docked into the system to allow quick and easy loading and unloading of biosensor chips. The cartridge includes a microfluidic flow cell and the necessary electronic and optical connectors.

The platform is versatile due to its quickly exchangeable test cartridges: this allows quick reconfiguration of the system to meet the monitoring demands of various applications. Compared to the competing analytical methods, The system offers a unique combination of versatility (can be used to detect small molecules, proteins, bacteria and viruses), high sensitivity, low cost of ownership, and ease of use. It integrates traditional lab sensitivity in a field instrument.

Advantages:

- Brings sensitive and selective measurement from the lab into the field.
- High sensitivity and fast results
- Easy to use
- Suitable for a wide range of applications. Initial efforts focussed on the water industry, but applications possible in e.g. health-care (point of care), pharmaceutical industry, aquaculture, agriculture, i.e. any industry where rapid detection of specific substances/contaminants in a liquid matrix is relevant.
- Flexibility: change of target analytes within seconds by switching between sensor cartridges.

The Dutch SME is either offering a commercial agreement with technical assistance and are looking for a partner that can offer the technology as is or integrate into third party products or solutions.

For the joint venture agreement the partner sought should have an interest in the capabilities of the solution provided and can have different roles, such as developing local distribution channels for the current product, inclusion of the product into its own products or services OEM (Original Equipment Manufacturer) agreement or developing the (new) market together.

Advantages and Innovations

Water quality monitoring, especially in drinking water, is still primarily based on traditional grab sampling and laboratory analysis. This means that a sample is taken and transported to the lab where it is analysed, either upon receipt or after storage for days or weeks. In case of an (suspected) emergency the analysis time can be reduced, but the time to transport the sample to the laboratory remains. This means an intrinsic delay, when it is important to have the results as quickly as possible.

This solution brings the necessary analytical capability to the site instead of the sample to the lab. With the technology solution offered, it will be possible to screen samples at the site for the presence of specific substances, for examples toxic substances of concern, or specific operational parameters. This eliminates the delay, with measurement results being available in 10 – 15 minutes, and decision on stopping or (re)starting of water supply can be taken almost immediately instead of with hour long delays.

Beyond the application in the water industry, the potential applications for the system include any type of application where the measurement of specific substances (identification and quantification) are required.

- Use of a highly sensitive interferometer to measure binding of target analyte to the sensor surface.
- Use highly specific receptors molecules to bind the target analytes. The system will use aptamers (artificial DNA or RNA segments) as robust receptors.
- Use of aptamers provides the possibility to design receptors for a wide range of target substances.

Stage of Development

Already on the market

IPR Status

Patents granted

Profile Origin

Private (in-house) research

Keywords

Technology

01003023	Environmental and Biometrics Sensors, Actuators
08002001	Detection and Analysis methods
09001009	Sensor Technology related to measurements
10002007	Environmental Engineering / Technology
10004004	Drinking Water

Market

03007002	Other measuring devices
03007003	Other analytical and scientific instrumentation
09008002	Water, sewerage, chemical and solid waste treatment plants

NACE

C.26.5.1	Manufacture of instruments and appliances for measuring, testing and navigation
E.36.0.0	Water collection, treatment and supply

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Languages Spoken

English
Dutch
German

Partner Sought

Type and Role of Partner Sought

The Dutch company offers a commercial agreement with technical assistance or joint venture agreement to partners parties that can assist in developing the market for this product. Sectors of interest are the water sector, health-care, pharmaceutical industry, aquaculture, agriculture, i.e. any industry where rapid detection of specific substances/contaminants in a liquid matrix is relevant.

Commercial agreement with technical assistance

The partner sought will be responsible for developing local market for the current product and for direct sales to customers within his region of responsibility. Furthermore, the partner will be responsible for the technical support (commissioning, maintenance,) of the systems of the Dutch company that are installed within his geographical area of responsibility. The Dutch company will provide thorough technical training of the partner's personnel in preparation for these activities. Furthermore, the Dutch company will provide technical support to the partner and will provide technical training of the customers acquired by the partner.

Joint Venture agreement

The partner sought should have an interest in the capabilities of the solution provided and can have different roles, such as developing local distribution channels for the current product, inclusion of the product into its own products or services (OEM agreement) or developing the market together (joint venture agreement). The tasks to be performed by the partner will depend on the nature of the partnership.

The partner should bring extensive experience for a target market and a specific project which will allow the adaptation of the product for that market. This experience can include also such technical aspects as methods for sample preparation and/or the access to bioreceptors for target substances of interest for the market. The Dutch company provides the detector platform, the know-how of development and integration of bioreceptors into assays which can be performed on its platform. Furthermore, the Dutch company will provide technical support to the partner concerning operation and maintenance for the market to be developed jointly.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Joint venture agreement

Technology Offer

Innovative system for cultivating plants on vertical or inclined planes

Summary

A Spanish technology based company has developed a system which is an evolution of the hydroponic system that combines a series of selected textile layers forming pockets that allow a better aeration of the plants' roots. They are looking for gardening companies for license agreement or technical cooperation agreement to exploit and commercialize their invention, and is open for a financial agreement.

Creation Date 01 July 2015
Expiration Date 01 December 2016
Reference TOES20150615001

Details

Description

A spanish technology based company has developed an Innovative system for cultivating plants on vertical or inclined planes.

This is bio-architecture solutions to change the traditional spanish architecture for a green architecture.

The invention relates to a system for cultivating plants in vertical or inclined planes, especially designed for achieving an optimum development of the plants immediately after the transplanting thereof, said system basically comprising a plurality of modules, each one comprising an outer layer for absorbing the water of the substrate where the root structure is located, and facilitating the passage of air there through such that the gaseous exchange is generated between said root structure and the outside environment so that the catabolic process is generated therein. Each module also comprises an inner layer of a material able to absorb and distribute liquid and nutrients to said root structure, and a third optionally waterproofing rear layer.

Energy benefits:

- *Improvement of thermal isolation of the building envelope
- *Energy savings due to the reduction of ventilation requirements
- *Temperature reduction around them

Environmental benefits

- *Improves air quality (CO₂ and harmful toxins absorption)
- *Oxygen production
- *Increases work performance and productivity
- *Improves visual and acoustic comfort
- *Lower office absenteeism and reduces stress levels

Advantages and Innovations

- *Its semi-hydroponic condition: the system has an improved thermal inertia in the face of the oscillations in the humidity and temperature levels that the living wall might experience.
- *Is a versatile system :indoors and outdoors, performing from the start in a wide range of spaces, such as hotels, offices, top end residential, exhibition spaces, shops or restaurants.
- *Its modularity, lightness (25-35 kg) and flexibility allow it to adapt to any kind of surfaces, including curved ones.
- *The modules are totally waterproofed at the back and have flaps encompassing the irrigation components, which allows an easy access to these elements and hugely simplifies both the installation and maintenance of the system

Stage of Development

Available for demonstration

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

Other

Keywords

Technology

10002003	Capture and Storage of CO2
10002007	Environmental Engineering / Technology
10002012	Remediation of Contaminated Sites
10002013	Clean Production / Green Technologies

Market

09007001	Construction companies
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NACE

A.02.1.0	Silviculture and other forestry activities
F.43.9.9	Other specialised construction activities n.e.c.

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Environment

Client

Languages Spoken

English
Spanish

Partner Sought

Type and Role of Partner Sought

They are looking for license agreement or technical cooperation agreement.

They are looking for gardening companies that are potentially interested in investing in the technology that they've developed so that they can in turn build their own related business in their country. These companies would become sub-licensors of this patented vertical garden system, this meaning they could manufacture it and also commercialize it exclusively in their own countries"

The company is open for a financial agreement.

They are looking for partners, such as, chemical companies or research centers interested in licensing their patent in order to exploit and commercialize their invention, as well as establishing business contacts with investors.

Entities interested in further development for specific applications are also sought.

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

License agreement
Financial agreement
Technical cooperation agreement

Technology Offer

Integrated Automatic Vehicle Location platform for fleet management and freight exchange

Summary

An Italian company, specialized in track and trace services, freight exchange and system integration, has developed an integrated platform which combines automatic track and trace technologies and an online freight exchange service which permits freight advertising among a secure network of logistics providers. The platform allows logistics optimization with significant fuel and transport time reduction and is apt also for remote vehicle diagnostics, goods tracking and environmental monitoring.

Creation Date	23 November 2015
Expiration Date	08 December 2016
Reference	TOIT20151123001

Details

Description

A fully integrated online service platform offers Automatic Vehicle Location and freight exchange capabilities for fleet management, ensuring specialized track and trace services and secure networking between logistics providers for route optimization.

Other possible applications are in the area of vehicle maintenance management, theft prevention, goods tracking. The technology could also be targeted to environmental monitoring and protection, road transport monitoring and traffic optimization.

The company is a system integrator specialized in processing and integrating geocoded data. It has 15 years of experience in the area of fleet management and freight exchanges and time-proved know-how in realtime monitoring of Automatic Vehicle Location (AVL) and GPS data and in cross-system integration. The track and trace division of the company was established in 1998, being one of the first nation-wide. It is currently looking for technical and commercial partners for further development and integration of the available technology for new applications and accessory services.

The location of the company's R&D division in the largest multidisciplinary Italian Science and Technology Park provides the company developers with an active link to many high-level scientific institutions and innovative technological companies. This in turn enables the company to provide its business and technical partners with state-of-the-art solutions and know-how.

Advantages and Innovations

The tracking technology allows significant improvements in fuel consumption reduction and transport time optimization. It enables the optimization of loading and unloading times, thus cutting on downtime. Maintenance management becomes easier and driver timetables are under control. Security notifications can be activated on a number of different events.

The freight exchange is built on security features; before enrollment, every new member has to provide a list of documents on the state of his company and his vehicles. To further increase the security level there is also a voip-based secure communication platform.

The platform offers cross-system integration capabilities as well as the possibility to use the freight exchange, tracking and freight localization modules either as an integrated platform or as stand-alone components. The system is open to custom integrations and on-demand customization.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

02008005	Road Transport
02009004	Road Vehicles
02009008	Navigation and embedded systems
02009009	Sensors for cars and transport
10002007	Environmental Engineering / Technology

Market

02007015	Integrated software
06011	Energy for Transport
08006001	Process control and logistics
09001002	Trucking
09001003	Leasing of railcars, buses, cars, etc.

NACE

H.49.4.1	Freight transport by road
H.52.2.1	Service activities incidental to land transportation
H.52.2.9	Other transportation support activities
J.61.2.0	Wireless telecommunications activities
J.63.1.1	Data processing, hosting and related activities

Open for EOI : **Yes**

Dissemination

Send to Sector Group

ICT Industry and Services

Restrict Dissemination to Specific Countries

Austria, BosniaandHerzegovina, Bulgaria, Croatia, Greece, Ireland,
Malta, Portugal, Romania, Serbia, Slovenia, Spain, Switzerland,
Turkey, UnitedKingdom,

Client

Languages Spoken

English
Italian

Partner Sought

Type and Role of Partner Sought

The company is looking for business and technology partners in the fields of logistics optimization, environmental monitoring and protection, fuel consumption reduction in road transport and transport optimization in general.

Potentially interested partners are to be found in any sector where there is an interest in fleet and route optimization for road transport and in realtime and efficient tracking of vehicles and goods.

Type of Partnership Considered

Services agreement
License agreement
Commercial agreement with technical assistance
Joint venture 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**

Dissemination

Send to Sector Group

Sustainable Construction

Client

Languages Spoken

English
Polish

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 Offer

Special and easy applicable glass surface coating for clean fresh air

Summary

An Austrian SME has developed a special, easy applicable surface coating for glass, to produce clean fresh air. This new technology based on photocatalysis binds ultra fine particles, dust and allergens. The company is looking for strategic partners for a commercial agreement with technical assistance, a research cooperation agreement or an investor for financial and / or licence agreement.

Creation Date 23 November 2015
Expiration Date 03 December 2016
Reference TOAT20151123001

Details

Description

Even though the air is cleaner today than it has been for the last two decades, ultra fine and fine particles can still create serious health problems. Especially in the Far Eastern regions, the population is suffering increasingly from polluted air caused by fine and ultra fine particles. According to the OECD, urban air pollution is set to become the top environmental cause of mortality worldwide by 2050.

So far, only closed systems have been used to improve the air quality. This has been made possible by filtering the recirculation air. These filtering systems are expensive, maintenance-intensive, inefficient and have high operating costs due to power consumption and maintenance costs. Furthermore, these closed filtering systems might be a breeding ground for germs and bacteria.

The Austrian SME, active in the area of surface coating, has developed a special coating for glass to purify the air and counteract air pollution caused by fine particles. This unique coating can be applied on glass anytime (no alteration needed) and is cleaning the air. This new technology is based on the principle of photocatalysis.

In cooperation with a university in London, this system is currently being tested for its effectiveness against viruses and bacteria. The preliminary results confirm the exceptionally high impact. Further tests are planned in an intensive care unit of a hospital. The automobile industry, window producers, schools and kindergartens as well as hospitals have great interest in this technology.

The Austrian company is well established in the market of surface coatings and is now looking for a commercial agreement with technical assistance or a research cooperation agreement. The partner would not only be responsible for the distribution of the technology but also for the manufacturing, sales and financing. Licencing or financial agreement via an investor is also an option.

Advantages and Innovations

This coating can be applied very easily on each glass, as it is an additional coating on existing objects.

The special coating provides an affordable option to improve air quality. The product is unique (patent applied for but not yet granted) and has a worldwide USP. No maintenance or running costs do arise nor are any side effects known. In the area of fine dust reduction, no comparable product or technological alternatives are known. The application can be processed / made by different service providers.

Stage of Development

Already on the market

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

Private (in-house) research

Keywords

Technology

02002002	Coatings
02002015	Surface treatment (painting, galvano, polishing, CVD, ..)
02007007	Glass
02007024	Nanomaterials
10002001	Indoor Air Pollution/Treatment

Market

05007005	Hospital and other institutional management
08004001	Air filters and air purification and monitoring equipment
09001005	Motor vehicles, transportation equipment and parts
09007002	Manufacture of construction materials, components and systems

NACE

C.20.4.1	Manufacture of soap and detergents, cleaning and polishing preparations
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Open for EOI : **Yes**

Client

Languages Spoken

English
German

Partner Sought

Type and Role of Partner Sought

Specific area of activity of the partner:

Manufacturer of glass, structural glazing, structural engineering, investors with access to public authorities

Task to be performed by the partner:

Industrial manufacturing, sales and distribution and / or financing industry, investor, financing, strategic partner in the area of glass processing plants.

Looking for partners with the following clientele:

glass manufacturer, construction and civil engineering, facade, partners with access to public authorities

Type and Size of Partner Sought

>500 MNE, 251-500

Type of Partnership Considered

License agreement
Financial agreement
Commercial agreement with technical assistance
Research cooperation agreement

Technology Offer

French SME offers extractor hood with closed circuit without filter for kitchen equipment

Summary

French SME specialised in the design of innovative products with more than 40 years experience has invented an extractor hood with closed circuit without filter suited for kitchen equipment. Looking for stainless steel kitchen equipment manufacturer for license or commercial agreement with technical assistance in order to manufacture this device. Targeted countries are : Belgium, France, Germany, Italy and Spain.

Creation Date 12 November 2015
Expiration Date 18 December 2016
Reference TOFR20151112002

Details

Description

French industrial designer SME specialised in design of innovative products with 40 years experience has invented an extractor hood with closed circuit without filter.

The extractor hoods available today do not have a closed circuit.

The extractor hood is coupled to a cooking hob in order to recover cooking vapours and smokes released during cooking. It works without external evacuation. It is suited for mobile kitchen that can be used in rooms restaurants. It is suitable both for the professional market and the domestic household market.

Looking for stainless steel kitchen equipment manufacturer for license or commercial agreement with technical assistance in order to manufacture the extractor hood.

Advantages and Innovations

Innovations :

- Treatment of vapours and smokes from the cooking hob
- The extractor recycles fat particles and dust
- The hood's motor has a low noise level compared with existing models
- Low suction power of the hood extractor

Advantages :

- It's use is convenient for indoor areas even if they are not dedicated for cooking and where outward smoke evacuation is impossible

Stage of Development

Under development/lab tested

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

05004002	Extraction
08002003	Safe production methods
10002001	Indoor Air Pollution/Treatment

Market

07005001	Fast food restaurants
07005002	Other restaurants
07005003	Hotels and resorts

NACE

C.27.5.1	Manufacture of electric domestic appliances
C.28.1.2	Manufacture of fluid power equipment
C.28.2.9	Manufacture of other general-purpose machinery n.e.c.
C.28.9.9	Manufacture of other special-purpose machinery n.e.c.

Open for EOI : **Yes**

Dissemination

Send to Sector Group

Agrofood

Restrict Dissemination to Specific Countries

Belgium, France, Germany, Italy, Spain,

Client

Languages Spoken

English

French

Partner Sought

Type and Role of Partner Sought

- Type of partner sought : manufacturing industry
- Specific area of activity of the partner : manufacturer of extraction hoods for kitchen equipment
- Role of the partner sought : manufacturing the kitchen hood

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
Commercial agreement with technical assistance

Technology Request

Technology for recycling/cleaning fluids used in metal processing is requested

Summary

A Romanian company specialized in high precision metal processing is interested in a technology for cleaning fluids with impurities used in the cutting, milling, polishing of metal products. The cooperation sought should be a commercial, license or services agreement for a solution already existing on the market.

Creation Date 14 December 2015
Expiration Date 31 December 2016
Reference TRRO20151211001

Details

Description

The Romanian company is specialized in high precision mechanical processing (milling, turning, cutting with a tolerance of 8 microns) of metal products for the hi-tech industry, mainly from automotive, aerospace and medical sectors.

Founded in 1996, the company is also active in the distribution of cutting tools, accessories, industrial machinery, metalworking fluids for cleaning, protection and preservation, measurement and control devices.

The company is already engaged in international cooperation, throughout the EU, as an experienced subcontractor.

The technology requested should be an innovative, profitable and eco-efficient solution of recycling/cleaning fluids used in mechanical metal processing.

During different steps of production, like: milling, cutting, polishing, etc., the fluids are contaminated with impurities and cannot be reused in the manufacturing stage. The technology should address this issue with an competitive and comparative advantage approach.

The partnership looked for is a long term cooperation through a commercial agreement, which includes the technical assistance, for an innovative, eco-efficient and cost effective solution already existing on the market.

The company is also opened for a license or services agreement type of cooperation, where applicable.

Technical Specification or Expertise Sought

The technology should offer a solution which is:

- innovative and eco-efficient;
- to be used in a small production enterprise, but with a high quality products market made by the company;
- cost effective, with competitive and comparative advantages;

- complying with environment and recycling regulations in the EU;
- already on the market.

Stage of Development

Already on the market

Keywords

Technology

02002010	Machining (turning, drilling, moulding, planing, cutting)
10002013	Clean Production / Green Technologies
10003004	Recycling, Recovery
10003006	Waste disinfection / detoxification

Market

08001014	Lubricants and functional fluids
08004004	Other pollution and recycling related

NACE

E.38.2.1	Treatment and disposal of non-hazardous waste
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Open for EOI : **Yes**

Dissemination

Send to Sector Group

Bio Chem Tech

Client

Languages Spoken

Romanian
English

Partner Sought

Type and Role of Partner Sought

The partners sought are SMEs or R&D Institutions active and with expertise in the recycling or waste management sectors.

The partner should present a solution, already on the market, in the recycling/cleaning fluids used in mechanical metal processing.

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

License agreement

Commercial agreement with technical assistance

Technology Request

Italian innovative company seeks partners for technical cooperation in Europe for further development of drones/mini helicopters usable in a wide range of sectors

Summary

Italian company builds autonomous, internal combustion engine, single-rotor drone that can be adapted to use in several sector, such as industrial inspection and maintenance of platforms, maintenance and inspection of agricultural fields, monitoring of critical infrastructures and inaccessible areas. The Italian company is looking for European partners able to collaborate for the further development and equipment of this products, in order to develop ready to use drones for specific sectors.

Creation Date 17 December 2015
Expiration Date 31 December 2016
Reference TRIT20151215001

Details

Description

Italian innovative company active as custom-oriented drones builders since 2007. These drones can be considered as mini helicopters to underline how these products, despite their small dimensions, share most of the main features of piloted helicopters. First of all for their internal combustion engines, that allow both great power and a long flight time, and then for the single rotor's aerodynamic characteristics which make them really efficient for vertical take-off devices and also able to fly with wind and without.

The drones are custom built according to the particular application's needs build autonomous, internal combustion engine, single-rotor drone. Its main features are structural soundness, mechanical reliability, efficiency and flight performances, but above all it is able to carry a considerable payload for long flight times. This is the most distinctive prerogative with respect to electric-propulsion vehicles, allowing the drone to be employed within different application fields where today conventional piloted helicopters are used (implying incomparable costs and risks): pipelines and power lines inspection, long-distance transportation of humanitarian aids, permanent surveillance of oil plants or factories. One of the sectors that benefits most from this type of drones is the agricultural one. This drone can spray fertilizers or crop protection products, it can perform aerial surveys to monitor soil and plantation's health, moreover it allows to carry on the two operations at the same time to pursue precision agriculture purposes, for example distributing pesticides only where needed. All this with a much lower environmental impact and with the greatest flexibility. The standard configuration, featuring a 30 cc two-stroke engine, accepts a 5 kg payload and with 1 kg of common gasoline it achieves 1 h of flight time; obviously this proportion can be adjusted, for example reducing the load to 2 kg whenever

possible and increasing the carried fuel to 4 kg, the flight time jumps to 4 hours. The helicopter has anti-vibration mounts beneath the autopilot. These mounts are manufactured according to our technical specifications, which are determined by instrumentally recognized vibration frequencies affecting the helicopter. Without measures that eliminate on-board vibration, sensitive sensors, such as the gyroscopes and accelerometers, are compromised. Power supply is sized to ensure operation for a full day, eliminating the need to interrupt work to recharge or replace batteries. For increased reliability, each device on board has a dedicated independent power supply. In normal operating conditions, the circuit keeps the load balanced between the two lines. If one of the circuits stops working, for example due to battery failure, the circuit is excluded. This maintains smooth operation by switching its power supply to the other battery. Batteries installed on the helicopter are based on lithium-polymer technology because of its unbeatable charge capacity/weight, power output capacity, and the absence of any memory effect. Like all electronics, they are mounted on vibration dampers to isolate them from vibrations and shocks from the helicopter's structure.

The Italian company is young, but they already had international contract overseas (South Africa).

The company produces these drones that are adaptable to several situations/sectors: once the client explain his needs than the drones needs to be adapted for that specific use. Now the company would like to develop new drones that are ready to use for a range of specific situations. In order to do so, the company seeks partners in Europe willing to reach a technical cooperation agreement in order to jointly develop a new and specific kind of drone, ready to use in a specific situation/sector.

Technical Specification or Expertise Sought

The potential partner should have the technology and the expertise to adapt the drones' technology for employment in the following sectors:

- sensor development
- farming
- rescue/first aid in developing countries or war zones
- infrared camera
- environment protection
- civil protection
- security

Keywords

Technology

10001002	Assessment of Environmental Risk and Impact
10002008	Measurement and Detection of Pollution
10002009	Natural Disasters
10002010	Remote sensing technology

Market

09001005	Motor vehicles, transportation equipment and parts
09001006	Airfield and other transportation services
09001007	Other transportation

NACE

A.01.6.1	Support activities for crop production
H.51.2.1	Freight air transport

Open for EOI : **Yes**

Client

Languages Spoken

English
Portuguese
Spanish

Partner Sought

Type and Role of Partner Sought

The potential partner should be an entity willing to cooperate with the Italian company through a technical cooperation agreement. The potential partner should provide expertise and technical solutions (sensor, technology, etc) to the drone manufacturer in order to create a “ready to use” drone for specific sector/situation

Type and Size of Partner Sought

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

Type of Partnership Considered

Technical cooperation agreement

Technology Request

Natural dyestuff or dithering technology for wax candles

Summary

A small company from Latvia engaged in production of natural beauty care products and accessories is looking for natural dyestuff or dithering technology for wax candles. The dyes should be applicable in eco-production with the consistent certification. The company is looking for a technology or solution already on market.

Creation Date 11 December 2015
Expiration Date 11 December 2016
Reference TRLV20151211001

Details

Description

In order to shade wax candles in natural colours the company from Latvia is looking for ecological dyes or dithering technologies. The company has been experimenting dithering candles with mineral colours but did not reach the desired effect. Natural wax candles require homogeneous, profound and simultaneously facile dye keeping the rich qualities and natural scents of herbs and petals added. The company is looking for commercial agreement with technical assistance and prefers a solution or technology already on market.

Technical Specification or Expertise Sought

Due to the particularities of wax candle production the dyes should be: heat-resistant, scentless, compatible with natural herbs and petals as well as of ecological origin. The dyes or the dithering technology should be applicable in eco-production with the consistent certification. Preferably the dyes or the technology should be also applicable for production of natural soap.

Stage of Development

Already on the market

IPR Status

Other

Keywords

Technology

02007004	Colours and varnish
02007020	Biobased materials
02007024	Nanomaterials

06006006 Biological Nanomaterials
10002006 Ecology

Market

07001007 Other leisure and recreational products and services
07004002 Health and beauty aids
07004008 Other consumer products

NACE

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

Open for EOI : **Yes**

Dissemination

Send to Sector Group
Bio Chem Tech

Client

Languages Spoken

English
Latvian
Russian

Partner Sought

Type and Role of Partner Sought

The company is looking for technology developer and manufacturer of natural dyes for beauty and relaxation industry. The company consider to obtain technology for wax dithering, natural dye products and is interested in commercial agreement with technical assistance.

Type and Size of Partner Sought

SME 51-250

Type of Partnership Considered

Commercial agreement with technical assistance



***Medio Ambiente:
Agua y Residuos***

Technology Offer

Complete on-site synthetic turf recycling solution.

Summary

An Estonian SME has developed a mobile synthetic turf recycling unit. It is the first mobile synthetic turf recycling system that performs recycling process on-site and off-the-field. The main competitive advantage is that unit enables to recycle synthetic turf to raw materials, thus reducing the total life-cycle costs of the installations, offering a cost-effective and sustainable end-of-life management solution. Types of cooperation: technical cooperation, joint venture or licence agreement.

Creation Date 02 December 2015
Expiration Date 03 December 2016
Reference TOEE20151202002

Details

Description

The Estonian SME with over 20 years of experience in the field of sport installations has developed an innovative way for synthetic turf removal and recycling. Conventional synthetic turf recycling technologies enable only low-efficiency infill separation from the artificial grass, which are also time consuming, expensive and unsustainable.

The offered technology is the most advanced complete synthetic turf removal system that consists of the following processes.

- Old synthetic turf removal: artificial grass removal process done within 8 hours. The removal tool cuts the entire full-size football pitch to only 30-rolls, compared to alternatives 120-130 rolls, enabling to remove the old synthetic turf with minimum damage. The artificial grass is rolled up and recycled into separate materials on-site.
- Infill separation process: old grass, drying and thermoplastic elastomer are separated from sand. Process is done on-site and recycled materials can be reused in new turf installation. Separation process is done in 3 days.
- New grass installation: installation process in 3 days.
- Filling new grass with recycled sand and thermoplastic elastomer from old turf.
- The mobile recycling line is fitted into only a 20-foot sea container, containing all necessary equipment and ensures the mobility of the system.

The solution is currently available on the market. The objective of the cooperation is to find partners for further development of the solution and partners for licencing the offered technology.

Advantages and Innovations

The developed technology has clear advantages over alternative synthetic turf removal systems. No comparable solution exist on the market in terms of cost-effective, quickness of removal and environment friendliness.

Environmental advantages

- Enables reuse about 95% of the used materials in new artificial grass application or as a raw material in other industries together with.
- 100% infill materials and polyethylene reclaim.
- 4x faster turf removal enabling re-installation.
- 6x reduced transportation needs, leading to 95% less CO2 emissions.

Cost-efficiency advantages

- Offered solutions removes the old turf in just 1 day, compared to competitors 3-4 days. The entire turf can be recycled into separate materials (sand, rubber, polymers) in 3 days off the pitch, thus increasing the effectiveness and speed of the whole field renovation process.
- A full-size football field renewal process can be completed within 7 days (counting only working hours), while competitors do the job in minimum 10-12 days.
- Compared to closest competitors, our solution increases the old turf removal speed by up to 4-times, ensures 2-times better infill separation, and reduces the entire football field renewal process time by up to 2-times.

Therefore in total, offered technology helps to lower the synthetic turf end-of-life management costs by up to 40-50% and increase the artificial grass sustainable management recycling rates.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

02005004	Packaging for materials
02007014	Plastics, Polymers
10002013	Clean Production / Green Technologies
10003004	Recycling, Recovery

Market

07001005	Sport facilities (gyms and clubs)
09007005	Facility management companies

NACE

F.43.9.9	Other specialised construction activities n.e.c.
M.71.1.2	Engineering activities and related technical consultancy

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: Industry

Activity: artificial turf installation/removal companies, or companies with expertise in manufacturing of synthetic fibres, polymers technology or plastic recycling.

The role of the partner in a case of licensing agreement: acquiring licence for using the technology.

The role of the partner in a case of technical cooperation agreement or joint venture agreement: joint further development and adaptation of the machines for applications. Cooperation in tasks like: improvement of blades epilator system, synthetic turf removal system and/or infill separation, drying and packaging module.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement

Technical cooperation agreement

Joint venture agreement

Technology Offer

Utilization of industrial waste for the development of special cement mortars

Summary

A Greek SME has developed various cementitious mortars utilizing industrial by-products of the paint industry such as the dry mud waste. The company is seeking for partners from the building materials sector and paint industry in order to establish commercial agreement and or technical co-operation agreement.

Creation Date 25 November 2015
Expiration Date 17 December 2016
Reference TOGR20151117001

Details

Description

The company has developed various cementitious mortars utilizing industrial waste. She has vast experience and expertise in the building materials industry. It focuses on industrialized quality production of mortars, thermal insulation systems and other building materials. It is also active in the extraction of decorative rocks and aggregates. Their goal is to fully meet the needs of the construction, renovation, maintenance and renewal. The mud of paint industry is a waste generated during cleaning of mixers. It has the form of concentrated suspension, which after various processing steps results in a dry solid waste, which is delivered to waste management companies while paying a high price. The dry mud consists essentially in calcium carbonate and titanium oxide. Its utilization in cement mortars, such as masonry mortar, floor screed and repair mortar was investigated. The mud was used as partial replacement of the sand after being crushed or as partial replacement of cement after being ground. The tests on mechanical characteristics gave results comparable or even better to the ones of the respective commercial products at the examined replacement rates. The company is willing to commercialize the research results and seeks for partners in order to establish commercial agreement and or technical co-operation agreement, thus encouraging further investigation of such uses of the mud. The ultimate goal of this profile is to find suitable partners to use the developed cement mortars. Agreements are envisaged with paint industries (waste producers) as well partners from the building materials industry (technology users).

Advantages and Innovations

The benefits for both the cement mortars and the paint industry are significant, saving raw materials and reducing the high costs of waste disposal. Cementitious mortars with reduced energy and environmental footprint due to utilization of waste materials and improved properties due to their intrinsic characteristics.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

Technology

02007002	Building materials
02007003	Ceramic Materials and Powders
02007019	Lightweight materials
10003004	Recycling, Recovery

Market

08001013	Ceramics
08004002	Chemical and solid material recycling
08004004	Other pollution and recycling related
09007001	Construction companies
09007002	Manufacture of construction materials, components and systems

NACE

C.23.6.4	Manufacture of mortars
C.23.9.9	Manufacture of other non-metallic mineral products n.e.c.

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The company is seeking for partners from the building materials sector and paint industry.
The ultimate goal of this profile is to find suitable partners to use the developed cement mortars.

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Technology Offer

Development of refractory adhesive mortars

Summary

A Greek SME has developed refractory adhesive mortars utilizing industrial by-products of brick industry and waste rock from mineral extraction. The company is seeking partners in order to establish commercial agreement with technical assistance and or technical co-operation agreement.

Creation Date 25 November 2015
Expiration Date 14 December 2016
Reference TOGR20151117002

Details

Description

Refractory adhesive mortar is produced with refractory cement and aggregate resistant to high temperatures developed in fireplaces, stoves and chimneys. The technology deals with the replacement of refractory aggregate (chamotte) by two alternative materials: a) waste of bricks industry, building bricks fragments, (an already burnt material) and b) waste rock from magnesite extraction, essentially consisting of dunite, a material resistant to high temperatures. The tests on mechanical characteristics and refractoriness gave results comparable to those of the commercial product at the replacement rates. The company is willing to commercialize the research results and seeks for partners from the building materials and refractory products in order to establish commercial agreement and/or technical co-operation agreement, thus encouraging further investigation of new materials using of these wastes.

Advantages and Innovations

The benefits for both the cement mortars and the bricks industry are significant, saving raw materials and reducing the high costs of waste disposal.
Refractory mortars with reduced energy and environmental footprint due to utilization of waste materials and improved properties due to their intrinsic characteristics.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

Technology

02006001	Materials, components and systems for construction
02007001	Adhesives
02007002	Building materials
02007003	Ceramic Materials and Powders
10003004	Recycling, Recovery

Market

08001013	Ceramics
08001023	Other chemicals and materials (not elsewhere classified)
09007001	Construction companies
09007002	Manufacture of construction materials, components and systems

NACE

C.23.6.4	Manufacture of mortars
C.23.6.9	Manufacture of other articles of concrete, plaster and cement

Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Type: SME, industry

Activity: building materials, refractories, rock mining

Role of the partner: The company is willing to commercialize the research results and seeks for partners from the building materials and refractory products (technology users) and/or companies dealing with mineral extraction (waste producers).

Type of Partnership Considered

Commercial agreement with technical assistance

Technical cooperation agreement

Technology Offer

Building materials from polymer waste

Summary

A company from Latvia has created a technology for production of quality building materials from thermoplastic polymer waste fractions which are not suitable for recovery of clean polymer and usually are deposited in landfills. The company offers know-how, technology and equipment to waste processing plants or building material producers or other industrial partners. The company is looking for joint venture, commercial and technical collaboration opportunities.

Creation Date 17 December 2015
Expiration Date 21 December 2016
Reference TOLV20151211003

Details

Description

In the polymer concrete as a binding substance is used thermoplastic polymer waste. Polymer is heated till melting and mixed with inert filler (sand, gravel, crushed glass). The hot composite mass is filled in a press form and pressed to form the product.

The offered technology was developed to utilize otherwise useless fractions of thermoplastic polymer waste. There are two benefits - utilization of polymer waste and bringing into market new product - quality building material made from polymer concrete. It can give additional profit to waste recycling or building materials producing companies. The technology allows to recycle thermoplastic polymer waste which in a melting process does not produce poisonous or hazardous gases - polyethylene, PET and polypropylene.

The Latvian company has solved technological problems which prevented extensive application of the method – it has considerably increased productivity of the process and improved quality of products.

At the moment company produces polymer concrete slabs for ground covering and similar articles for local market. The products are of similar quality as conventional cement articles. The company seeks for collaboration with industrial partners offering technological know-how or full production line for manufacturing of polymer concrete products.

Advantages and Innovations

Polymer concrete products are lighter than traditional cement analogues. They are more durable in Northern countries due to better resistance to freezing - thawing cycles. The technology allows to utilize polymer waste fractions which are not suitable for clean polymer recovery thus reducing volume of landfills or quantity of waste for burning. Transforming the polymer waste to into a marketable products stimulates collection of polymer waste, consequently reducing littering of environment. Turning rubbish into building materials reduces cement usage and therefore saves natural resources required for cement production.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

02006001	Materials, components and systems for construction
02007002	Building materials
02007005	Composite materials
02007014	Plastics, Polymers
10003004	Recycling, Recovery

Market

08001023	Other chemicals and materials (not elsewhere classified)
08004004	Other pollution and recycling related
09004008	Other manufacturing (not elsewhere classified)
09007002	Manufacture of construction materials, components and systems

NACE

C.23.6.9	Manufacture of other articles of concrete, plaster and cement
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The type of partner sought: companies involved in waste processing or manufacturing of building materials.

The tasks to be performed by the partner sought: implementation of the technology.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement

Joint venture agreement

Technology Offer

Production of composite panels from thermoplastic waste for panelling of outer walls

Summary

A company from Latvia has developed a technology for production of composite panels from thermoplastic waste for panelling of outer walls in buildings. The company offers technology for waste management companies and building material producers. Various collaboration options are possible, including joint venture, commercial and technical co-operation.

Creation Date	18 December 2015
Expiration Date	21 December 2016
Reference	TOLV20151210003

Details

Description

The company from Latvia has a lasting experience of research in the field of recycling of plastic waste. Among other technologies it has developed a method for production of composite slabs/panels from thermoplastic waste. The panels can be used in panelling of outer walls of houses and other buildings. They are good looking, environmentally friendly, and have good thermo-isolation properties.

The composite for production consists of thermoplastic polymer waste (polyethylene, PET, polypropylene) as a binder and expanded clay granules and sand as inert fillers.

The company seeks for partners from building materials production or waste management sectors to implement the technology. Especially waste management companies can be interested in the offer, as the technology allows to utilize thermoplastic waste.

Advantages and Innovations

The slabs are relatively light, with fine thermo-isolation properties, are suitable for panelling and are good looking. The production technology is environmentally friendly, as it allows to utilize thermoplastic polymer waste fractions which are not suitable for recovery of clean polymer. The technology allows to produce slabs in various colours and sizes. The defective slabs or slabs after exploitation can be recycled.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Keywords

Technology

02006001	Materials, components and systems for construction
02007002	Building materials
02007005	Composite materials
02007014	Plastics, Polymers
10003004	Recycling, Recovery

Market

08001023	Other chemicals and materials (not elsewhere classified)
08004002	Chemical and solid material recycling
09004008	Other manufacturing (not elsewhere classified)
09007002	Manufacture of construction materials, components and systems

NACE

C.32.9.9	Other manufacturing n.e.c.
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The type of partner sought: companies involved in waste processing or manufacturing of building materials.

The tasks to be performed by the partner sought: implementation of the technology.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Technical cooperation agreement

Joint venture agreement

Technology Offer

Recycle & Waste Management Software

Summary

A Turkish software company related with many sectors released new product about waste management. The software is useful for reducing operational costs and increase efficiency. By means of the product, management of recycle inventories is also available. The company is looking for commercial agencies or end users.

Creation Date 12 November 2015
Expiration Date 07 December 2016
Reference TOTR20151109001

Details

Description

A Turkish company founded in 2013 has developed a software for waste collecting management. The software works on tablets in waste collecting vehicles and PCs in management offices. In order to operate easily, software has been designed user friendly.

Software uses real datas provided by operators and inventory locations provided by GPS. The software calculates optimal route to fill vehicles capacity with taking displacement of the vehicle into consideration. Occupancy of the waste inventories are calculated by the system, based on the periodic datas that operators provide. Citizens may submit comments or suggestions via website of the software owner company / municipality.

Software may be used commercially right now but development is available upon real cases and suggestions.

In pilot region, a waste management company started to use the software and it started to provide service to %300 more inventories without increasing the number of the service vehicles. It is determined that, operational costs reduced by %50 after using the software.

The software is integrated with GPS systems in the service vehicles and based on the location, operator can only insert data for the nearby inventories. This feature blocks the misuse of the database.

The company would like to sell this product abroad and looking for commercial agents for commercial agency agreement or end users for license agreement.

Advantages and Innovations

- Reduction of costs
- Ease of use
- Collaborative, open to citizens
- Budget friendly installation and usage

Stage of Development

Already on the market

IPR Status

Secret Know-how

Keywords

Technology

01003006	Computer Software
01003008	Data Processing / Data Interchange, Middleware
01003024	Cloud Technologies
10003004	Recycling, Recovery

Market

02007007	Applications software
02007019	Computer-aided instructions
02007024	Programming services/systems engineering
08004002	Chemical and solid material recycling

NACE

E.38.1.1	Collection of non-hazardous waste
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

Company would like to sign commercial agency agreement or license agreement and is looking for agents or end users like municipalities, waste management companies etc. Company should have knowledge about waste management in order to adapt softwares working principles.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance

Technology Request

Seeking innovative food contact packaging.

Summary

An established Irish company in the packaging and food ingredients area are seeking a new innovative food contact packaging from suitable manufacturers. The Irish company will manufacture the packaging and sell within Europe to the food manufacturing industry, especially those focused on the meat industries. The company is seeking licence agreements or commercial agreements to manufacture such a packaging with technical assistance. Joint venture agreements will also be considered.

Creation Date 07 December 2015
Expiration Date 09 December 2016
Reference TRIE20151207001

Details

Description

The Irish company is a leading provider of packaging and ingredients to the food industry for many years. They are looking for a technology that already exists and is ready to go to market within Europe to add to their extensive product range. Ideally the technology for production would be relatively unique and not currently available within Europe.

Suitable partners are being sought to sign licensing agreements, commercial agreement with technical assistance, joint venture or manufacturing agreements. The suitable partners must also meet all applicable EU regulations.

Technical Specification or Expertise Sought

Food contact packaging that meets all current EU regulations.

Stage of Development

Already on the market

IPR Status

Secret Know-how, Design Rights, Patents granted, Granted patent or patent application essential, Trade Marks, Exclusive Rights

Keywords

Technology

02005001	Foil, fils
02007014	Plastics, Polymers
08001003	Food Packaging / Handling
08001005	Food Technology
10003004	Recycling, Recovery

Market

07004008	Other consumer products
09004006	Packing products and systems

NACE

C.22.2.2	Manufacture of plastic packing goods
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The suitable partner will have an existing technology for contact food packaging, willing to license exclusive rights to process the product within Europe. Also joint venture, commercial agreement with technical assistance and manufacturing agreements will be considered with suitable partners.

Type and Size of Partner Sought

251-500

Type of Partnership Considered

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

Technology Request

Technology for recycling/cleaning fluids used in metal processing is requested

Summary

A Romanian company specialized in high precision metal processing is interested in a technology for cleaning fluids with impurities used in the cutting, milling, polishing of metal products. The cooperation sought should be a commercial, license or services agreement for a solution already existing on the market.

Creation Date 14 December 2015
Expiration Date 31 December 2016
Reference TRRO20151211001

Details

Description

The Romanian company is specialized in high precision mechanical processing (milling, turning, cutting with a tolerance of 8 microns) of metal products for the hi-tech industry, mainly from automotive, aerospace and medical sectors.

Founded in 1996, the company is also active in the distribution of cutting tools, accessories, industrial machinery, metalworking fluids for cleaning, protection and preservation, measurement and control devices.

The company is already engaged in international cooperation, throughout the EU, as an experienced subcontractor.

The technology requested should be an innovative, profitable and eco-efficient solution of recycling/cleaning fluids used in mechanical metal processing.

During different steps of production, like: milling, cutting, polishing, etc., the fluids are contaminated with impurities and cannot be reused in the manufacturing stage. The technology should address this issue with an competitive and comparative advantage approach.

The partnership looked for is a long term cooperation through a commercial agreement, which includes the technical assistance, for an innovative, eco-efficient and cost effective solution already existing on the market.

The company is also opened for a license or services agreement type of cooperation, where applicable.

Technical Specification or Expertise Sought

The technology should offer a solution which is:

- innovative and eco-efficient;
- to be used in a small production enterprise, but with a high quality products market made by the company;
- cost effective, with competitive and comparative advantages;

- complying with environment and recycling regulations in the EU;
- already on the market.

Stage of Development

Already on the market

Keywords

Technology

02002010	Machining (turning, drilling, moulding, planing, cutting)
10002013	Clean Production / Green Technologies
10003004	Recycling, Recovery
10003006	Waste disinfection / detoxification

Market

08001014	Lubricants and functional fluids
08004004	Other pollution and recycling related

NACE

E.38.2.1	Treatment and disposal of non-hazardous waste
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Open for EOI : **Yes**

Partner Sought

Type and Role of Partner Sought

The partners sought are SMEs or R&D Institutions active and with expertise in the recycling or waste management sectors.

The partner should present a solution, already on the market, in the recycling/cleaning fluids used in mechanical metal processing.

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
License agreement

Commercial agreement with technical assistance

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