Profile Status: Published

Technology Offer

Innovative waterproof waist bag that can be converted into a lifejacket

Summary

A team of Greek engineers have developed a waterproof waist bag to protect personal valuables (keys, money, mobile phone) from theft during swimming, which can also be converted into a lifejacket. It is distinctive, compact and can allow the use of mobile phone or other electronic devices during swimming. SMEs active in clothing and other related accessories for the water sports market interested to conclude licensing agreement and manufacturing agreement are sought.

Creation Date	19 July 2018
Last Update	23 July 2018
Expiration Date	24 July 2019
Reference	TOGR20180719001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/4067187d-4843-4adc-a060-2a49c61c8c90

Details

Description

A team of Greek engineers have developed a novel waterproof waist bag to protect personal items (keys, money, mobile phone etc.) from theft during swimming while it can be also used as a lifejacket in emergency purposes.

More analytically, it is divided into two parts: One part is placed in or next to a bag that closes with two corrosion-resistant rails which are fastened between two thumb screws, so that the inflow of water is practically impossible.

The second part of the system is a folded lifejacket containing carbon dioxide filled cartridge as well as its trigger mechanism. The mechanism connects the cartridge (which is screwed on) with the inner part of the lifejacket through an enclosed air-tight hole. The activation is done by pulling the cord which in turn pushes a piston that pierces the cartridge passing through the mechanism of the air inside the lifejacket. The bag closes with a film which allows easy and convenient release of the lifejacket. In case of emergency, the user just pulls the string and the life jacket will automatically inflate in just 3 seconds. The waist bag features also an adjustable strap and safety clasp.

Concerning its practical usability, it can be used in various water activities where taking personal belongings such as a smartphone is quite risky since water can irreparably damage them. Those activities include all sorts of water sports and activities like water ski, kite surfing, swimming, fishing, sailing, lifeguarding etc. The protection is achieved owing to a waterproof

case that is placed in a special plastic bag and seals tightly (double protection).

The lifejacket can be released and used many times, either by replacing the air canister or by just blowing through the inflation tube. Also, the air canister mechanism has been converted in such a way allowing the user to use common affordable bike air canisters (bike pumps) that can be found easily at various bike stores or other hardware stores.

In addition, the lifejacket can support enough weight for a big swimmer, and it is not just for personal use since it can be easily detached from the waist bag.

Regarding its qualitative features, all fabric selections have been specifically chosen to keep user feels great while at the same time all his personal belongings are safe in waterproof materials. Zippers and all accessories are carefully selected for the best performance of the bag.

In brief, the proposed innovative waist bag constitutes a necessary tool for sea lovers, bathers at sea and swimming pools, for usage in various types of vessels (yachts, sailing, fishing, inflatable boats etc.), lifeguards and those engaged in marine sports as they can protect their personal items from water and theft and at the same time save their life during swimming.

The company is in need of finding partners active in water sports clothing and related accessories to manufacture, further develop and commercially exploit the proposed waist bag. The considered types of agreement are licensing agreement and manufacturing agreement.

Advantages and Innovations

The innovative bag offers a series of advantages to the users as detailed here below:
- It offers safe storage of valuable personal items (such as mobile phone, keys, money etc.) keeping them secure from the risk of theft while the user is away from the shore.
- It also provides the ability to use stored electronic devices (mobile phone or music player) while in the water, since the bag features waterproof jack plug for headphone cable.
- Additionally, the proposed bag can easily be converted to a lifejacket under emergency situations. It can help not only the user of the bag in any case of panic, fear or injury but also a person who is near him/her as the lifejacket can be easily detached from the bag.

Moreover, it can be used for everyday activities since it is a really nice fit for men or women.Finally, its novelty is validated as it has been granted a patent.

Stage of Development

Already on the market

IPR Status

Patents granted

Comment Regarding IPR status

1500 pieces were tested in China and were successfully marketed.
A patent in Greece has been granted for the offered technology while an application PCT (Patent Cooperation Treaty) has been filled to safeguard the global market.

Profile Origin

COSME

Keywords

Technology

11007	Sports and Leisure
11009	Creative products

Market

07001004	Sporting goods, hobby equipment and athletics clothes
07001007	Other leisure and recreational products and services
07004001	Clothing, shoes and accessories (including jewellery)
07004008	Other consumer products

Network Contact

Issuing Partner

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

1993

Turnover

1 - 10M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
Greek

Client Country

Greece

Partner Sought

Type and Role of Partner Sought

- Type of partner sought: SMEs.

- Specific area of activity of the partner: Production of water sports clothing and related accessories.

- Task to be performed by the partner sought: potential partners should have the capacity to manufacture, further develop and commercially exploit the proposed technology through licensing agreement and manufacturing agreement. The possibility of custom–made production for addressing new potential market sectors is also open for discussion.

The Greek team has the technical and manufacturing expertise for any detail or assistance needed.

Type and Size of Partner Sought

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

Type of Partnership Considered

License agreement
Manufacturing agreement

Attachments

Profile Status: Published

Technology Offer

Customised barcode system for management of access to any kind of premises like housing facilities or car parks

Summary

A Northern German startup developed a practical and secure solution to give temporary access to all kind of premises, based on a customised barcode system. Possible applications are facility management of apartment blocks, parcel delivery, car parks, hotel or campus management. Other applications in access management can be discussed. Commercial agreements with technical assistance are offered by the startup.

Creation Date	02 July 2018
Last Update	12 July 2018
Expiration Date	13 July 2019
Reference	TODE20180625001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/aaa43303-bfb1-426d-9109-510d55cccc8e

Details

Description

A startup from Northern Germany has developed a technology to give temporary access to certain premises based on a customised barcode system. The invention combines a hardware device with a web service. The hardware consists of a barcode scanner with internet connectivity and a processor. It gets installed right next to the existing intercom or doorbell. If a person wants to enter the building/facility, he or she presents a barcode or qr-code. The information is transmitted to the web service, where access authorisation gets checked. This can be done based on a parcel's shipment label and the underlying track-and-trace data, or an access code can be explicitly generated and equipped with the necessary permissions by the owner or manager of the house or car park and transmitted to a smartphone.

The hardware device is very generic and works in combination with every existing intercom. The next versions will be tailored to the doorbells of different manufacturers.

The technology has been developed with regard to the use case of parcel delivery to apartment blocks, ensuring the direct delivery of parcels at the first attempt, without troubling the neighbours. In order to complete all aspects of secure parcel delivery, the company cooperates with several providers of secured package bags which can be affixed to apartment doors as complementary products. In addition, the facility managers can use the system to give access to maintenance, installation or cleaning services. Residents can forward customised barcodes to

their guests and may use additional features of the web-platform to communicate within the neighbourhood.

Especially for assisted living facilities the technology could be very useful to give access to care and meal services.

Hotels and holiday homes could use the system, especially if they do not have a 24 hour reception service.

Another promising use case would be access management of car parks and depots. The device can be connected to a gate or barrier to give access to car parks for hotel guests or visitors of companies. Lorry drivers arriving at night could get access to depots. Supermarkets in urban areas could sell their parking space to residents outside of their opening hours.

The technology is currently tested with pilot clients. The company would like to negotiate commercial agreements with technical assistance with future clients from different possible fields of applications. This could be the housing economy, ownership communities, parcel services, car park managers, managers of holiday homes or assisted living projects and others. A combination of revenue shares and device installation flat charge, monthly fees for usage of the web-platform and/or pay-per-use models can be discussed.

Advantages and Innovations

Compared to giving access with tags or transponders, this technology has several advantages:

- Barcodes are not restricted to a physical medium. Instead, they can be integrated into documents or send via e-mail to smartphones.

- Customised access can be given to certain persons for a defined timeframe. Barcodes can be valid for multiple uses or for single entry only. The possibility of the technology to grant selective access on demand is unique.

- This technology lets parcels themselves become temporary keys, closing a missing link in an otherwise gapless transportation chain and enabling new convenient delivery concepts.

Stage of Development

Field tested/evaluated

IPR Status

Patent(s) applied for but not yet granted

Profile Origin

National or Regional R&D programme

Keywords

Technology

01	ELECTRONICS, IT AND TELECOMMS
01002013	Smart cards and access systems
01003025	Internet of Things
01004003	Applications for Transport and Logistics

02003001	Process automation

Market

03008004	Other electronics related (including alarm systems)
09001004	Mail and package shipment
09007005	Facility management companies

NACE

C.26.1.1	Manufacture of electronic components
H.49.4.1	Freight transport by road
J.61.2	Wireless telecommunications activities
L.68.3.2	Management of real estate on a fee or contract basis
N.81.1.0	Combined facilities support activities

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

ICT Industry and Services

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

English
German

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

- The company seeks contacts to facility management companies, housing cooperatives and ownership communities of apartment houses that would be interested to install and test the technology.

- Contacts to decision makers from the professional housing industry that could give some first-hand feedback on the product and business model would also be very welcome.

- Partners for projects in other areas of application, e.g. car park management or assisted living facilities, are welcome to get in touch.

- Public institutions like universities, R&D institutions or schools looking for a convenient solution for campus access management are welcome to get in touch.

- The company already established many contacts to parcel and delivery services that gave very positive feedback on the idea so far and are without exception very interested to cooperate. Further contacts from these kind of companies are nevertheless always welcome, though they are not a priority at the moment.

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

Commercial agreement with technical assistance

Attachments

Bild1.png



Profile Status: Published

Technology Offer

Smart IOT tool for Lean management of material supply in manufacturing plants

Summary

A Catalan company has developed an automatic system for material supply management. This platform helps customers to make their work processes lean and improve the efficiency of the material supply chain. This smart tool manage the factory in real-time to provide automatic management of Kanban calls and the tools to analyse and apply the improving to lean the production processes. They are looking for an industrial client interested in a commercial agreement with technical assistance.

Creation Date	16 October 2017
Last Update	03 November 2017
Expiration Date	03 November 2018
Reference	TOES20171016001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/b7c066af-0588-4535-b42f-43251e877713

Details

Description

Catalan company has developped a smart system for logistics based on Kanban calls.

The main functionalities of the system are:
• Automatic management of Kanban calls
• Wireless sensors with 5 years of battery autonomy
• Manual calls for material replacements using RFID or barcode readers
• Delivery and production tasks confirmation
• Tasks assignation algorithm depending on the carrier geolocation and the current workload
• Stock level reports
• Workload peak detection

System Overall Description:
• Information is transferred all over the plant through a secure protocol
• The server stores all the events as Big Data and manages the material supplies
• Smart sensors are installed in material locations to detect if a Kanban call needs to be triggered
• Sensors also detect the supply of the

Smart Sensors:

• Automatic detection of a box in a certain position of the ramp to call material and detect that material has been delivered
• Easy installation to allow the configuration of the stock security level
• Wireless with extended lifecycle of 5 years or 120.000 material calls
• Detection of container position to manage the automatic replacement

Integration with SAP and other ERPs:
• This system notifies to SAP to add material calls that are triggered so they can be managed for customers systems
• Production manager software may notify Kanban 4.0 for an automatic configuration of the production changes in a working station

this innovation will help to check and improve the cost structure:
• Lead time reduction: The automatic detection and the management of the most efficient call will reduce the response time of the service in more than 50%
• Stock level reduction: If the lead time is reduced the safety stock level can be reviewed and reduced in more than 40%
• Analytics for the logistic processes review

They are looking for industrial companies interested in increasing their production efficiency by managing the manufacturing process. They offer a comercial agrement with technical assistance in order to help the client in the set up of the system in his own plant.

Advantages and Innovations

The benefits are:
• Response time reduction in more than 50%
• Intermediate inventory reduction in more than 40%
• Reduction of the production stoppage due to stock break in more than 25%
• Total reduction of the wrong supplies due to human factor
• The tool to analyse the whole material supply chain with graphics and KPIs

The innovation this system is the technology to manage the production plant automatically:
• Smart sensors are installed in material locations to detect if a Kanban call needs to be triggered and if the supply has been completed. This wireless sensors have 5 years of autonomy and can be installed in few seconds!
• Tasks assignation algorithm depending on the carrier geolocation and the current workload

Stage of Development

Already on the market

IPR Status

Secret Know-how,Design Rights

Profile Origin

Private (in-house) research

Keywords

Technology

02003001	Process automation
02003002	Manufacturing plants networks
02003005	Information processing & Systems, Workflow

Market

08002003	Process control equipment and systems
08002006	Numeric and computerised control of machine tools
08002007	Other industrial automation

NACE

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

Network Contact

Issuing Partner

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Open for EOI : Yes

Dissemination

Send to Sector Group

Materials

Restrict Dissemination to Specific Countries

France, Germany, Italy, Spain,

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

0

Turnover

<1M

Already Engaged in Trans-National Cooperation

No.

Languages Spoken

German
French
Spanish
Italian

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

The catalan company is looking for an industrial company interested in applying lean concepts to his manufacturing plants, in order to increase his efficiency. the Catalan offers a commercial agreement with technical assistance to implement the tool.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance

Attachments