Technology Offer

Immersive 3D audio technology for interactive applications and virtual reality

Summary

A small German company offers advanced 3D audio technology for interactive applications that can auralize a variety of acoustic surroundings and that offers a new listening experience. Applications are in virtual reality, 360° films, games and also linear productions. The application programming interface (API) is suitable for all platforms. Licensees are sought or partners for technical or commercial agreements with technical assistance.

Expiration Date	30 April 2017
Reference	TODE20151029002
Profile link	

Details

Description

A small German company - specialised in 3D audio and interactive sound design – offers audio software and production for virtual reality and 360° film.

Their software is a 3D-audio application programming interface (API). With this technology audio sources can be virtually positioned and moved within a 3D-space in real-time. Many different kinds of acoustic surroundings can be auralized to create realistic sound immersion.

The 3D-Audio API provides a new experience for all kind of interactive applications through enhanced design possibilities for gameplay and narration. It is suitable for all platforms (iOS, Android, OSX, Win, Linux) and can be directly implemented in the game engine Unity via an asset or native in standalone applications. The use of headphones for playback is required.

Individual solutions with contents adjustments can be created.

Partners are sought for licensing or for technical or commercial agreements with technical assistance, e.g. to integrate technology in their equipment or to develop projects together.

Advantages and Innovations

• 3D audio software for headphones with full 360° sound and different room simulation is not available yet in the quality offered by the German company.
• Collaboration with university ensures access to latest research in the field

Stage of Development

Available for demonstration

IPR Status

Trade Marks

Keywords

Technology

01003004	Computer Games
01004014	Serious Games
01005006	Visualisation, Virtual Reality
01006001	Audiovisual Equipment and Communication
02009015	Audio / video

Market

07001001	Movies, movie products and theatre operations
07001003	Toys and electronic games
07001006	Music, records, production and instruments
07001007	Other leisure and recreational products and services

NACE

J.59	Motion picture, video and television programme production, sound recording and music publishing activities
J.59.2	Sound recording and music publishing activities

Open for EOI : Yes

Dissemination

Send to Sector Group

Creative Industries

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

2014

Client Country

Germany

Partner Sought

Type and Role of Partner Sought

Partners are sought for licensing, commercial agreements with technical assistance ar technical cooperation:

- Licensees, e.g. agencies, end-users, industry
- Commercial agreement with technical assistance: Hardware manufacturers interested in integrating 3D audio features into their products with the adjustment support of the German company
- Technical cooperation for project development and production for clients

Type of Partnership Considered

License agreement
Commercial agreement with technical assistance
Technical cooperation agreement

Strong sewing thread made of compostable material

Summary

A Swiss company has launched its first compostable clothing line. In order to achieve compostability for a piece of clothing, the guidelines for design and production are very strict. As a consequence of these guidelines, the company is looking for a sewing thread with the strength and properties of polyester. The company is seeking partners who have the know-how for this kind of sewing thread. Commercial, technical or research agreements could be possible.

Expiration Date 07 July 2017
Reference TRCH20160706001
Profile link

Details

Description

A Swiss company recently launched its first compostable clothing line with t-shirts, pants and shirts. In order to achieve compostability for a piece of clothing, the guidelines for design and production had and have to be very strict. They managed to find a compostable sewing thread, but up to this day it is not as strong as a standard polyester sewing thread.
They are now looking for know-how or technologies with properties and strength matching polyester. The technology or know-how to apply should not compromise on the compostability of the clothes.

The existing clothing line has following characteristics:

Grown in Europe
The fabric is made from bast and cellulose fibres grown in Europe like Tencel or Modal, a cellulose fiber produced from raw material wood or wood pulp designed to minimize environmental impact. Producing these native fibres protects the soil and requires much less water than cotton which is easier to process.

Other fibres fitting the same criteria (low footprint, European, biodegradable) would be possible. Plant-based fibres are preferred and production has to be in Europe according to the concept of sustainable development of the company.

Short transport routes
Compared to common textiles, the path from fibre to product is a short trip. The various production steps for the fabric take place at a distance of maximum 2’500 kilometres (1’600 miles) from Zurich.

Not toxic
While flax and hemp cultivation requires almost no pesticides, they also use as few chemicals as possible when further processing bast fibres. The company avoids bleaching altogether. This means that the fabric may also be recommended for babies and infants without any restrictions. This is the conclusion reached by Oeko-Tex® Standard 100 (product class I), an independent

control and certification system.

Factory proof
Fabrics and garments have to be long-lasting and sturdy. The Swiss company uses it as workwear in the factory and also at the bar after work. The employees subjected all fabrics and products to strict testing, also taking style into account.

For the compost
The fabric satisfies the toughest factory requirements and yet is 100 % biodegradable in compost within just a few months.

Background of the company
The company is design driven and a pioneer in its area. Several products of their other product line are exposed in well-known museum collections. Products can be purchased world-wide.

Cooperation
The company is looking for partners or research partners who have either the know-how or are willing to develop it together with the company respectively with a thread producing company. The company believes that the solution could come from the textile sector but more likely from other industries like e.g. bioplastics.
Following cooperation types might be considered:
- Commercial agreement with technical assistance: with a partner that offers the suitable solution
- Technical cooperation agreement: with a partner who has a solution which has to be adapted to the requirements of the Swiss company
- Research cooperation agreement: with a research partner to develop the solution as no existing solution is available

Technical Specification or Expertise Sought

- Strength equals polyester
- The solution has to be washing machine proof
- Available in various diameters on standard production spools
- Possibility to dye with GOTS or Oeko-tex low impact colours
- The end solution – the new thread - has to dissolve completely in regular compost within a few months. = Cradle to Cradle approach
- If possible, the solution should be vegan

Keywords

Technology

02007018	Advanced Textile Materials
02007020	Biobased materials
03005005	Non weaving related to Textiles Technology
03005007	Textile fibres
10003001	Biotreatment / Compost / Bioconversion

Market

07004001	Clothing, shoes and accessories (including jewellery)
09004003	Textiles (synthetic and natural)

NACE

C.13	Manufacture of textiles
C.15.1.2	Manufacture of luggage, handbags and the like, saddlery and harness
G.46.1.6	Agents involved in the sale of textiles, clothing, fur, footwear and leather goods

Open for EOI : Yes

Dissemination

Send to Sector Group

Environment

Client

Type and Size of Organisation Behind the Profile

Industry SME 50-249

Year Established

1993

Languages Spoken

English
Swedish
German
French

Client Country

Switzerland

Partner Sought

Type and Role of Partner Sought

The specific area of activity of the partner:
For all the three cooperation types the sought partner should be active in the production of sewing threads and meet the above mentioned criteria (in research stage or further developed).

The tasks to be performed by the partner sought:
- Commercial agreement: Provide the suitable solution.

- Technical cooperation agreement: Adapt an existing solution to the required specifications of the Swiss company.
- Research cooperation agreement: Develop the suitable solution together with the Swiss company.

Type and Size of Partner Sought

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

Type of Partnership Considered

Commercial agreement with technical assistance
Technical cooperation agreement
Research cooperation agreement