



PODIT - Profili di cooperazione

ID 2730 - 🇸🇪 Svezia - Creazione 27/02/2014 - Scadenza 15/09/2016 - Offerta Tecnologica

Technology that cleans liquids (water, sewage, industrial waste water etc.) without using chemical polymers

Flocculation is an old process used in the purification of drinking water as well as sewage treatment, storm-water treatment and treatment of other industrial waste water streams. During flocculation, gentle mixing accelerates the rate of particle collision which facilitates the binding of the unwanted particles into larger precipitates. The Swedish cleantech company has developed a simple but yet effective separation process reactor, based on flocculation, which only consists of one step – four to five different reactions in one reactor. The technology is based on the use of natural physical and chemical forces that binds particles. These reactions together form coalescence – the formation of homogenized sludge. The innovative reactor is designed to fast and effective maximize coalescence and by that obtain homogenized sludge that is easy to separate. This makes it possible to avoid the use of chemical polymers totally or at least to reduce the quantities used. The reactor also works as a very effective transformation process – nitrification, de-nitrification and separation of phosphor. The reactor is very flexible, could be scaled into different sizes and could constitute a whole treatment installation or be part of an already existing treatment plant. The technology has several market potentials and can already be used in waste water, drinking water, process industries, beverage industries, households and biological water treatment such as aquaculture. The Swedish SME is now looking for partners within these fields that are interested in commercial agreement with technical assistance, research cooperation agreement or technical cooperation agreement.

ID 4123 - 🇸🇪 Svezia - Creazione 14/03/2014 - Scadenza 29/10/2015 - Offerta Tecnologica

Gemstone Treatment Methods

Most gemstones are currently treated to increase their attractiveness and meet market demand through the use of such treatments as heat, diffusion and radiation. Nordic gemstones are clearly in demand; however, there are few deposits and most require some form of treatment in order to meet these demands. With this in mind, many previously established gemstone treatment methods are used, and new methods are developed. The chemical composition of the respective minerals as well as those of any inclusions is required to ensure correct determination and application of treatments. To achieve this, the personnel must be certified in treatment methods for the gemstone industry as well as have extensive backgrounds in chemistry, geology and mineralogy. A training programme could be jointly developed as no such training center exists

in Europé. Additionally, all minerals have complex chemical compositions that are more or less altered by their formative environment and any inclusions. Treatment results are highly affected by these factors and thus this must be taken into account when formulating treatment methods and plans. Results of this cooperation have a significant bearing on both current and future mining operations, as positive findings should reduce mining waste.

ID 13199 -  Svezia - Creazione 18/11/2014 - Scadenza 13/11/2015 - Offerta Tecnologica

System for reducing energy consumption

The system will help to take control of energy and makes it possible to introduce user participation to reduce energy consumption. Influencing the user is an extremely cost effective way to reduce consumption. By using the system to engage your staff in energy conservation work the energy savings through tend to range between 10 - 20% and in some cases up to 35%.The measuring system is completely web based and can be integrated with a company's own web solution. It is also possible to design the portal according to special requirements. All users have their own portal page that they can access via computer or mobile device. It is possible to monitor the consumption in real time and also see historical consumption.The company wants to find partners that are interested in implementing the system on OEM-basis, and/or a partner that is interested in a joint RTD-Project to develop consumer products for private customers.

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Patented salt substitute with natural flavour - license or manufacturing partners wanted

An easy method to produce an all-natural salt substitute that makes it possible to reduce or eliminate the sodium content in food without reducing the salt flavor or adding bitterness. In especially US and Europe people consume too much sodium. This leads to many health issues including obesity and heart problems. A natural replacement to sodium is potassium, by combining lysine with potassium chloride you keep the salt flavour from potassium without the bitter taste of potassium. The problem in mixing the two ingredients is that they have completely different density. When transported or handled they will separate. This new manufacturing process combines the potassium and lysine into combined crystals. The combined crystal completely eliminates separation of the two substances and, because lysine will be adjacent to the potassium, removes the bitterness of the potassium.