


Organoclick


Eco-friendly high performance fiber composite material

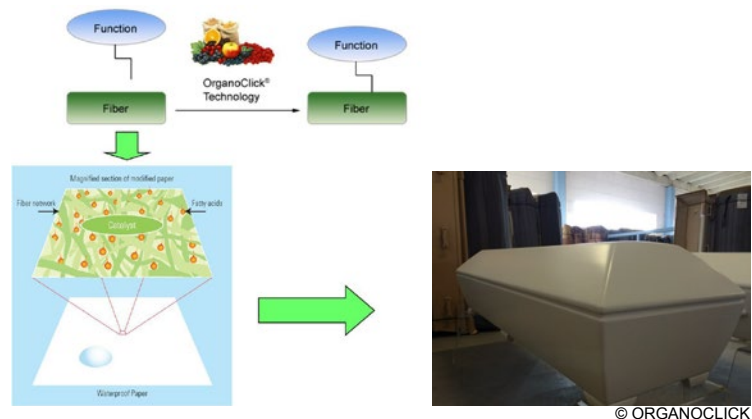

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INFORMATION ON THE ECO-INNOVATIVE SOLUTION PROVIDER

This eco-innovative solution is the output from the project titled "Eco-friendly high performance fiber composite material" co-funded by the European Commission in the framework of the Competitive and Innovation Program. This solution has been developed by a team coordinated by OrganoClick AB, Sweden, in partnership with Nyarp Holding (S).

SHORT DESCRIPTION OF THE ECO-INNOVATIVE SOLUTION

OrganoClick has developed a new high-performance bio composite product, manufactured by moulding technology. Wooden fibers and bio additives are combined to produce bio composites with particular characteristics. The materials are produced by a newly developed moulding technology enabling 3-D shaped materials in sizes 2.5 m x 1.5 m x 0.5 m to be moulded, for example, into a complete burial coffin or into table tops. By using a sandwich construction, the material is very light, yet strong and the weight of a burial coffin for example can be reduced from 36 kg to 12 kg while retaining the strength. Significant reductions and savings in raw material consumption can be achieved

INDUSTRIAL SECTOR – MARKET SEGMENT AND ACTUAL APPLICATION IN INDUSTRY

20-39 Manufacturing

INDUSTRIAL CLASSIFICATION - NACE CODE;

16 Manufacture of wood and of products of wood and cork

1. DESCRIPTION OF ECO-INNOVATIVE SOLUTION

Technical aspects of the eco-innovative solution

The core technology consists of a new production line to produce light-weight bio-fiber composite materials. The equipment is similar to traditional pulp moulding machinery but in order to enable the moulding of large formats (2.5x1.5x0,.5 m), equipment needs to be supplied by the Swedish counterpart. The raw materials consist of wooden fibers / pellets and bio additives, which also provide the particular characteristic. The output is a customised bio-composite material, of different sizes and forms, e.g. entire table tops, of structural stability used for furniture, burial coffins, building panels or the automotive industry. Main advantages are that this material can be given particular characteristics such as fire retardancy, wet strength and anti-fungal properties, by using only non-toxic and eco-labelled chemical technologies developed by OrganoClick.

Due to the simple production, process labour costs can be significantly reduced.

Economic and environmental benefits of the eco-innovative solution

The entire production line needs to be set up. Costs for a production line with a capacity of 100,000 units produced/year is approximately 2 million €. A big reduction in raw materials as well as highly automated production technology mean that cost savings of up to 50% can be achieved compared to current products. Environmental benefits are a reduction of up to 70% in the use of raw materials and the elimination of toxic chemicals such as formaldehyde based glues, fire retardants or VOC.

2. AVAILABILITY OF THE ECO-INNOVATIVE SOLUTION AND BUSINESS PARTNERSHIP

Market readiness, Trade mark, existing market coverage, commercialization strategy

The production line is established in Sweden. Partnerships for the sale of the burial coffins exist in the Nordics, Germany, the Netherlands, the UK and Poland where wooden coffins are being replaced for economic and environmental reasons.

Requirements to adapt the solution to the local market and potential applications/market size

Production line must be newly established; raw materials can be sourced locally, additives need to be supplied from Sweden; tailored solutions (e.g. particular characteristics for the automotive industry) can be developed in cooperation with OrganoClick.

On-site after-sales services support and the technical assistance requirements

From Sweden

Targeted local business partners

Furniture industry, coffin

Type of local business partnership sought

- Licensing of the technology and supply of the production line
- Sales of final products