

Biodegradable transport pallets made of waste paper

Summary

Profile type

Technology offer

Company's country

Hungary

POD reference

TOHU20240503004

Profile status

PUBLISHED

Type of partnership

**Research and development
cooperation agreement****Investment agreement****Commercial agreement with
technical assistance**

Targeted countries

• World

Contact Person

JACOPO CONTAVALLI

Term of validity

6 May 2024**6 May 2025**

Last update

6 May 2024

General Information

Short summary

A Hungarian technology transfer agency offers its technology, the biodegradable transport pallet. It is an innovative, light eco packaging made from waste paper used for transport and storage of consumer goods, and kept in warehouses of major manufacturers, stores, and other retail facilities. A single-use product which can be used again as a raw material in the same production line. They are looking for possible license agreements, investment, and collaborative R&D research possibility.

Full description

A Hungarian agency offers biodegradable transport pallet production technology. The biodegradable transport pallet is made of recycled material, waste paper, so it is a light- eco packaging. By its constructive solution with enough mechanical stability; the pallets enables easy stacking of empty pallets which saves storage space; because of decreased possibility of contamination suitable for transport of goods of food-, pharmaceutical, and clothing industries; and also because of significantly reduced weight which represents the significant expenditure factor, recommendable for transport in the air traffic; enables equally easy approach to the leverages of the fork truck from both longer and shorter side of the pallet.

The problem it is trying to solve is to construct a transport pallet made of recycled material, which is biodegradable – to preserve forests, lighter – to decrease transport fuel costs, cheaper – to decrease packaging costs, easy stacking of the empty pallet, one into another – to decrease storage space. The target users are the food-, pharmaceutical -,

clothing, and packaging industry.

The innovative, new product can be produced in many countries by selling the license of the patent with the know-how technology. This sustainable solution provides an eco-friendly alternative for transportation and logistics, utilizing recycled materials to create durable and environmentally conscious pallets.

In essence, the company is searching for dynamic and results-driven partners who can help expand the reach of their biodegradable transport pallet technology, contributing to the broader mission of fostering sustainability in the transportation and logistics industry. The company is looking for licensing opportunities across the globe. They are also considering collaborating with another company to do R&D together. Further investments are also an option to be considered.

Advantages and innovations

The innovative aspect of the product is, made of paper pulp makes it light, by its constructive solution kept its mechanical stability, enables easy stacking, saves storage place, enables easy approach to the leverages of the fork truck, completely ecological, biodegradable.

The invention has the following advantages, among which the most important are:

- significantly less space for storage, can be stacked one into another (32pcs can be stacked one on other on the height of 2.5m, pallet made of wood can be stacked 16pcs on the same height),
- lightweight,
- decreased possibility of contamination,
- enables easy approach on both sides to the leverages of the fork truck,
- ecological, biodegradable

The advantages over already known technical solutions with the above mentioned are:

- much shorter time of production,
- no waste in the production because the scrap returns to the production process,
- cheaper

The weight of 1 biodegradable transport is till 6kg, load capacity till 700kg. According to feasibility studies made for some European countries the profit is up to 45% of the income. Social benefits can reflect on the area where the production is taking place by buying up waste paper from the local community collectors. The environmental benefit is the usage of waste paper in the production and there is no waste because the scrap returns in the production process.

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Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

IPR granted

Sustainable Development goals

• **Goal 9: Industry, Innovation and Infrastructure**

Partner Sought

Expected role of the partner

In their pursuit of a business partner, the company is actively seeking organizations interested in participating in commercial agreements with technical assistance, investment agreements, and research and development cooperation agreements for their innovative biodegradable transport pallet made of waste paper.

The research agreement would focus on the sustainability of the technology and the optimization of the production. The company is looking for investors who are not only interested in financial investments, but who can provide “smart-money” to companies. This smart-money concept enables the company to receive not only financial but professional support in one.

Type of partnership

Research and development cooperation agreement

Investment agreement

Commercial agreement with technical assistance

Type and size of the partner

• **R&D Institution**

• **SME 11-49**

• **SME 50 - 249**

• **Big company**

• **University**

• **SME <=10**

Dissemination

Technology keywords

• **08001003 - Food Packaging / Handling**

• **02007013 - Paper technology**

Targeted countries

• **World**

Market keywords

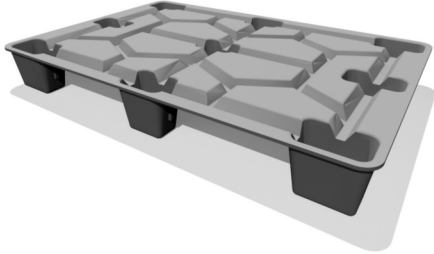
• **09001007 - Other transportation**

• **09004006 - Packing products and systems**

Sector groups involved

Media

Images



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