

RAIZ



Forest and Paper Research Institute

TECHNOLOGICAL
SCOUTING NEWSLETTER

January 2020

Highlights

Sustainable new packaging related products from Stora Enso, start-ups and Colgate

New use of long-distance drones



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Industrial Property (IP) Survey (quarterly)

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I4.0



photo: Metsä

Metsä: mills to serve as innovation platforms for VTT

Metsä Board is participating in the joint project SEED, led by VTT, providing its industry mills as innovation platforms for app developers and research institutions focused on solving production challenges with new digital solutions.

Metsä Board's pilot project focuses on the management of spare parts' data content for reducing maintenance costs.

Read more > [Metsä](#)

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BIOREFINERY

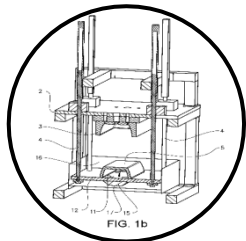


Photo: Patent EP3313637B1

FIMO Fiber Molding AB: wood fiber bottle

The Swedish start-up FIMO Fiber Molding AB has developed a durable, strong and stable bio-bottle made of wood fiber pulp, and a completely new method for its manufacture. The process is patent pending, where a few of its advantages can be listed: production steps reduced in number and complexity and enables uniformity of strength and of surface in pulp molded products. FIMO has been assisted by the research company RISE.

Read more > [Packnews.se | EP3313637B1](#)

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photo: Stora Enso

Stora Enso: starting trial of reusable biocomposite lids

Stora Enso and Finnish dairy company Valio are starting the distribution of 10 000 DuraSense biocomposite lids to encourage consumers to reduce their food waste. The lids will be distributed at Valio's sales demonstrations in Finland during January 2020.

Read more > [Stora Enso](#)

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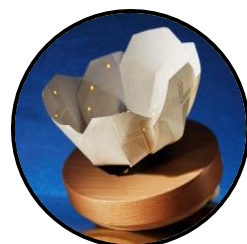


photo: Grenoble INP

Grenoble INP: interactive, touch sensitive and recyclable paper

Researchers at the Grenoble INP - Pagora have recently developed an interactive paper material that reacts to one's touch or breath, can record and transfer data through an integrated electronic circuit, and can even light up. The PaperTouch is predictable to be commercialized through a expected to be created start-up. PaperTouch is primarily made up of cellulose fibers. The electronic circuit is sandwiched between two wet pieces of paper which become a unique piece of paper upon drying. When soaked in water, its cellulose fibers separate from the electronic components and break up. Multi-functional, luminous and interactive packaging geared for the luxury and cosmetics industries was already developed using PaperTouch. Researchers have also created a paper keyboard that reacts to a user's breath and could facilitate interactions with electronic devices for users suffering from paralysis.

Read more > [Grenoble INP](#)

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photo: yankodesign

Coolgate: a sustainable toothpaste packaging

A sustainable packaging project developed in Brazil for Colgate toothpaste resulted in Coolpaste, an ecological version of the well-known Colgate toothpaste. The tube is said to be composed of waterproof papers, like those already used in the food industry. The lid is said to be made from PLA.

The graphic elements of the product were also refreshed to reflect the goal of the project: the paper box was eliminated without affecting the toothpaste integrity, and a simplified branding was adopted eliminating chemical inks. Coolpaste is also presented as a product that would hang instead of being stacked.

Read more > sonoticiaboa.com.br | verycompostable.com | <http://ecolabel.com.br/>

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photo:
packaginginsights

Sappi: expands portfolio of barrier papers

Sappi Europe has added a 91 g/m² offering to its high-barrier paper range for achieving optimal product protection through its oxygen, steam, grease and oil barriers. Sappi has also enhanced its light barrier papers range with the addition of a 75 g/m² paper. These new additions to its portfolio enables manufacturers to sustain high product quality of snack bars.

Read more > packaginginsights

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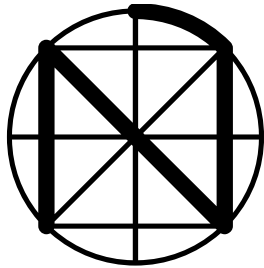
photo: tissueonline

Klabin: clearance for long-distance drone use

Klabin is the first company in the paper and pulp industry to get approval from the National Civil Aviation Agency (Anac) to operate unmanned aerial vehicles (UAVs or drones) without the need for constant visual contact with a ground crew. Now Klabin will be able to fly up to 120 meters high and within a distance of five kilometers. Before, distances were limited to 500 meters from the takeoff point. With this change, employees flying the drones will no longer have to travel to areas very close to the planted land to take aerial images data.

Read more > [tissueonline](#)

● Forest



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