



Abstract

An SME in the South East of England have designed and developed a biodegradable packaging material based on a composite from plant materials: stems and leaves of plants and other natural ingredients that provides a credible alternative to the plastics currently used. The company seeks a license agreement and would like to talk to industry in the packaging and manufacturing sector.

Description

The composites are made from maize stems, leaves, cob-ends and grain that are part of the animal forage. Corn husk is also used for specific characteristics. Natural binders and coatings are used to impart properties required by the application and no use of any synthetic material is made in the formulation.

Conventional high volume production processes can be used to process the composite to shape.

Innovations and advantages of the offer

The innovative approach is in selecting and designing an optimum production as well as life cycle fit for application/purpose yet maintaining biodegradability and compost ability of final design for packaging food items and horticultural items, medical disposables and stationery items. The composites provide a biodegradable and home-compostable alternative generated from crops, crop waste that are renewable and sustainable. The conversion process is also energy-efficient.

Current and Potential Domain of Application

Packaging and manufacturing sectors.

For further information (including IPR status) please contact:

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