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Patent Search

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Abstract:

ABSTRACT This invention presents a sustainable method for producing electronic circuit boards using banana tree residues. The process involves extracting banana fibers, coating them with transformer oil and epoxy resin, thermally compressing the coated fibers, and drilling holes for electronic component assembly. This innovative approach addresses the need for ecofriendly materials in electronic manufacturing by utilizing agricultural waste, thereby reducing the environmental impact and costs associated with traditional materials. The coated banana fibers exhibit enhanced electrical insulation and mechanical strength, making them viable alternatives to conventional circuit materials. This method not only contributes to environmental sustainability but also promotes the circular economy by transforming banana tree waste into valuable materials for the electronics industry.

Complete Specification**TITLE OF INVENTION**

Method for Producing Electronic Circuit dot boards from Banana Tree Residues

FIELD OF INVENTION

This invention pertains to the field of electronic circuit board manufacturing, specifically focusing on a sustainable method of producing electronic circuit boards using banana tree residues. It involves the extraction of banana fibers, coating these fibers with transformer oil and epoxy resin, thermal compression of the coated fibers, and drilling holes for electronic component assembly.

BACKGROUND OF THE INVENTION

The present invention emerges from the growing need for sustainable and environmentally friendly materials in the manufacturing of electronic circuit boards. Traditional circuit boards are predominantly made from non-renewable resources such as fiberglass and epoxy resins, which are not only expensive but also contribute significantly to electronic waste. The disposal of these materials poses serious environmental hazards due to their nonbiodegradable nature and the presence of toxic substances.

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