

Title (en)

MICROWAVE HEATING OF HEAT-EXPANDABLE MATERIALS FOR MAKING PACKAGING SUBSTRATES AND PRODUCTS

Title (de)

MIKROWELLENERWÄRMUNG VON WÄRMEEXPANDIERBAREN MATERIALIEN ZUR HERSTELLUNG VON VERPACKUNGSSUBSTRATEN UND PRODUKTEN

Title (fr)

CHAUFFAGE PAR MICRO-ONDES DE MATÉRIAUX THERMO-EXPANSIBLES SERVANT À FABRIQUER DES SUBSTRATS ET PRODUITS D'ENCAPSULATION

Publication

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Application

EP 13742570 A 20130717

Priority

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Abstract (en)

[origin: WO2014015060A2] Packaging containers (e.g., cups) or protective wraps may be made with two layers of sheet material and an expanded thermal insulation between the layers. The thermal insulation may be made from microencapsulated, heat-expandable particles that are expanded with a microwave heater at some point during processing substrate, building, conveying or packaging the containers. The particles may be applied to blanks formed from die cutting, expanded by heating, and then tampered. The blanks may be outer wraps to a double wall cup, formed by placing and adhering an inner cup to the outer wrap. Alternatively, an adhesive containing the particles are applied to inner cups, which may be adhered to outer wraps to complete formation of the double wall cups. The cups may then be heated with a microwave heater at a subsequent workstation as the cups are conveyed, stacked, placed in bags, the bags in cartons and the cartons stacked and palletized.

IPC 8 full level

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