

Title (en)

EXPANDABLE SLIT SHEET PACKAGING MATERIAL THAT INTERLOCKS WHEN LAYERED AND EXPANDED

Title (de)

VERPACKUNGSMATERIAL MIT EINER BEI DER SCHICHTUNG UND DEHNUNG VERNETZTEN DEHNBAREN GESCHLITZTEN FOLIE

Title (fr)

MATÉRIAU D'EMBALLAGE À FEUILLES FENDUES EXTENSIBLES QUI S'ENTRECROISENT QUAND ELLES SONT MISES EN COUCHES ET ÉTENDUES

Publication

**EP 3041756 A4 20170621 (EN)**

Application

**EP 14843068 A 20140908**

Priority

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Abstract (en)

[origin: WO2015035335A1] In accordance with a broad embodiment of the invention, a novel paper product is comprised of two or more slit sheet packing material layers, each layer having its own slit pattern design to create interlocking layers of expansion sheet packaging materials. Each layer expands to create a three dimensional open netting of cells of hexagons, and the like, and is designed to have limited nesting with its opposing layer, thereby maximizing the thickness of the combined layers as compared to nested layers. Adjacent layers have differing slit patterns and can be expanded through expander type machinery such that the expansion rates of the differing slit pattern layers can be varied to deliver the same width of exiting expanded material from each layer. Preferably the differing slit patterns produce when expanded, inclined land area that have the same number of rows per inch, but different angles of inclination of the land areas, such that adjacent layers can interlock, that is, have a restricted amount of nesting.

IPC 8 full level

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Citation (search report)

- [XA] US 4832228 A 19890523 - HICKEY DAVID J [US]
- [A] EP 0768948 A1 19970423 - JIFFY PACKAGING CO LTD [GB]
- [A] US 5688578 A 19971118 - GOODRICH DAVID P [US]
- See references of WO 2015035335A1

Designated contracting state (EPC)

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