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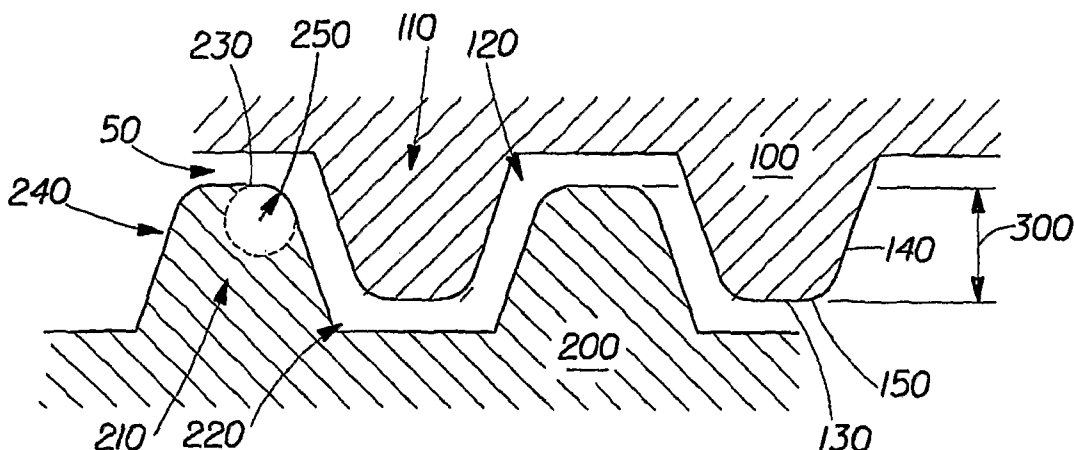
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(54) Title: IMPROVED PROCESS FOR PRODUCING DEEP-NESTED EMBOSSED PAPER PRODUCTS



(57) Abstract: The present invention relates to an apparatus for producing a deep-nested embossed paper product comprising two embossing cylinders (100, 200), each cylinder having a plurality of protrusions (110, 210) on its surface. The protrusions on each cylinder are disposed in a non-random pattern where the respective non-random patterns are coordinated to each other. The two embossing cylinders are aligned such that the respective coordinated non-random pattern of protrusions nest together such that the protrusions engage each other to a depth of greater than about 1.016 mm. The protrusions each comprise a top plane (130, 230) and sidewalls (140, 240), with the top plane and sidewalls meeting at a protrusion corner (150, 250). The protrusion corners of the protrusions of the embossing cylinders of the apparatus of the present invention have a radius of curvature ranging from about 0.076 mm to about 1.778 mm.

WO 2005/113226 A1



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