

Title (en)

PRECISION FOLDED STRUCTURAL AND AESTHETIC COMPONENT AND SHEET THEREFOR

Title (de)

PRÄZISIONSGEFALTETE STRUKTURELLE UND ÄSTHETISCHE KOMPONENTE UND BLECH DAFÜR

Title (fr)

ÉLÉMENT STRUCTURAL ET ESTHÉTIQUE PLIÉ AVEC PRÉCISION ET FEUILLE ASSOCIÉE

Publication

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Application

**EP 07762065 A 20070509**

Priority

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Abstract (en)

[origin: WO2007134114A2] A sheet material is provided for forming a precision folded structural and aesthetic component of a contoured three-dimension. The sheet material may include a forward-panel bend line separating a forward panel and a fold panel, the forward-panel bend line may be curved to impart contour on at least the fold panel upon bending of the sheet material about the forward-panel bend line, and a fold line extending along the fold panel, the fold line may be substantially straight to impart the contour of the fold panel to the upper panel upon bending of the sheet material about the fold line. The sheet material may include an upper panel, a first upper-panel-flange bend line separating a forward upper flange from a warp zone of the upper panel, the first upper-panel-flange bend line may be curved to impart a first contour on one or more of the first upper flange and the warp zone, a second upper-panel-flange bend line separating a second upper flange from the warp zone, the second upper-panel-flange bend line may be curved to impart a second contour on one or more of the second upper flange and the warp zone, and first and second curved warp zone bend lines separating the warp zone from a remainder of the upper panel, the first and second curved warp zone bend lines configured to localize bending along the bend line and substantially isolate warpage within the warp zone. A method of forming the same is also disclosed.

IPC 8 full level

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