

Title (en)

Method of forming a slim package.

Title (de)

Verfahren zur Herstellung eines dünnwandigen Behälters.

Title (fr)

Procédé de fabrication de boîtes à parois mince.

Publication

EP 0684183 A3 19961120 (EN)

Application

EP 95104649 A 19950329

Priority

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- DE 4423864 A 19940706

Abstract (en)

[origin: EP0684183A2] The invention is a methodology to form a slim package, especially a body panel, a shoulder, a neck and a forehead resulting in a consumer liquid package, made one sheet metal or sheet steel (A) and as a result of the requirement for extended material area in the shoulder (4) area of film (6) extended in area (62) by forming a structure (63) ; (B) following stamping at least a forehead (11) , (C) simultaneously or in a following deep drawing stroke at least a section of a neck (5) and particularly one section of a shoulder (4), (D) in a second deep drawing stroke the at least not already formed section of shoulder (4) from first deep drawing stroke and at least one section of the body (3) ; (E) particularly further at least the shoulder (4) in a further compression station, particularly a coning process of deep drawing steps (8) The deep drawing invention produces a particularly, very price efficient and commercial manufacturing of the slim package with very low weight and quality material requirements.
<IMAGE>

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B65D 1/00

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XA] EP 0376240 A1 19900704 - ENAMI SEIKI KK [JP]
- [A] DE 2451511 A1 19760506 - BRACHT FRIEDRICH WILHELM ING G
- [A] US 2359775 A 19441010 - MCMANUS CHARLES E, et al
- [A] FR 785453 A 19350810 - STEYR WERKE A G
- [A] US 4111032 A 19780905 - RAULT DANIEL RAYMOND
- [A] GB 1185534 A 19700325 - OUTIL DE BONDY ET SOPEM REUNIE [FR]
- [A] CH 525820 A 19720731 - ALUSUISSE [CH]

Cited by

US10730090B2; US10315242B2; US10239648B2; USD1043246S; WO2015004908A1

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