Title (en)
METHOD AND APPARATUS FOR STAMPING SHEET MATERIAL

Publication
EP 0238099 B1 19911002 (FR)

Application
EP 87104914 A 19850514

Priority
FR 8407678 A 19840517

Abstract (en)
[origin: ES8701546A1] A sheet of metal of given thickness is press-formed to provide a part having a substantially constant thickness on a double action press. The sheet to be formed is disposed on a support. A first outer slide, or blank holder is applied on the peripheral portion of the sheet. A second central slide is applied on the central portion of the sheet. The peripheral portion of the sheet is formed while allowing it to slide under the blank holder, by displacing relative to said support at least one active part of the outer slide so as to compensate, in certain regions of the finished part, for excess areas of the sheet, for the given thickness of said sheet, relative to the volume of metal to be formed, and displacing simultaneously with the displacement of the part the central slide so as to shape angular volumes of the central portion of the sheet by application of the sheet against the surfaces of the central part of the support.

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IPC 8 full level
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CPC (source: EP KR US)
B21D 22/10 (2013.01 - EP KR US); **B30B 5/02** (2013.01 - EP US)

Citation (examination)
"Technologie professionnelle du travail des métaux en feuilles, tubes, profilés", G. Cotant, pub. Dunod, Paris, France, 1976, pages 200 - 203

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EP 0238099 A2 19870923; **EP 0238099 A3 19890809**; **EP 0238099 B1 19911002**; AT E102510 T1 19940315; AT E67941 T1 19911015; AU 4260885 A 19851121; AU 581659 B2 19890302; BR 8502328 A 19860121; BR 8705581 A 19900501; CA 1296581 C 19920303; DE 3584291 D1 19911107; DE 3587770 D1 19940414; DE 3587770 T2 19941027; EP 0165133 A1 19851218; EP 0165133 B1 19940309; ES 543907 A0 19861216; ES 557038 A0 19870501; ES 8701546 A1 19861216; ES 8704769 A1 19870501; FR 2564339 A1 19851122; FR 2564339 B1 19871224; JP H02165822 A 19900626; JP H0224610 B2 19900530; JP H0536133 B2 19930528; JP S6138721 A 19860224; KR 850008115 A 19851213; KR 930004864 B1 19930609; MX 163280 B 19920331; US 4833903 A 19890530; ZA 853618 B 19851224

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