

Title (en)

Method and device for forming workpieces by restructuring their surfaces

Title (de)

Verfahren und Vorrichtung zur Formgebung von Körpern Durch eine strukturierende Umbildung ihrer Oberflächenkontur

Title (fr)

Procédé et dispositif pour la formation de pièces par réstructuration de leur surface

Publication

EP 0933146 A3 20010418 (DE)

Application

EP 98250448 A 19981223

Priority

- DE 19803782 A 19980122
- DE 29819194 U 19981028

Abstract (en)

[origin: EP0933146A2] The method uses forces, partially directed onto the workpiece. Power introduction to a selected part of the work piece is retained for the period required to finish partial forming to selected contour. After removal of the forming force, the return force in the contour of the formed work piece section is absorbed by the work piece. During the process, alternating concave sole areas and convex crest areas are formed. The forming forces are absorbed by static forces generated in the surface structure.

IPC 1-7

B21D 39/04; B21C 37/20; B21D 26/14

IPC 8 full level

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CPC (source: EP)

B21C 37/15 (2013.01); **B21C 37/158** (2013.01); **B21C 37/20** (2013.01)

Citation (search report)

- [XP] DE 19711103 A1 19980910 - HELLWIG UDO PROF DR [DE]
- [X] FR 2152349 A1 19730427 - DALLET JEAN [FR]
- [A] FR 2018559 A1 19700529 - LITTLE INC A
- [A] DE 4401974 A1 19950727 - MIRTSCH FRANK PROF DR [DE]
- [A] US 3203078 A 19650831 - GEORGE USTIN
- [A] FR 2348762 A1 19771118 - PEYRONNET JEAN [FR]
- [A] US 5261263 A 19931116 - WHITESELL ERIC J [US]

Cited by

EP1372924A4; DE202007014218U1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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