

Title (en)

A method of rolling extrusion with regulated axis spacing of axi-symmetrical stepped parts

Title (de)

Verfahren zum Walzen/Fliesspressen mit geregelter Achsabstand von axialsymmetrisch gestuften Teilen

Title (fr)

Procédé de laminage à régulation d'espacement à axe régulé de parties étagées à axes symétriques

Publication

**EP 2842649 A1 20150304 (EN)**

Application

**EP 13461569 A 20131230**

Priority

PL 40429413 A 20130612

Abstract (en)

The way of rolling extrusion with regulated axis spacing of axi-symmetrical stepped parts is characterized in that a formed semi-finished product ( 3 ) in the form of a bar or tube part is placed in the seat of the front rotary holder ( 1 ) and in the seat of the back rotary holder ( 2 ), next, the front rotational holder ( 1 ) and back rotational holder ( 2 ) together with semi-finished product ( 3 ) move with a translational motion with constant velocity ( V ) into the workspace, which is made by the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls, next the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls are put into rotational motion in the same direction and with the same velocity ( n 1 ), then revolution motion of the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls is activated with the velocity ( n 2 ) and the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls are brought closer to the semi-finished product ( 1 ), yet rotary movement trajectories ( 7a ), ( 7b ) and ( 7c ) of the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls are of spiral shape, next the semi-finished product ( 3 ) is affected by the ( 4a ), ( 4b ) and ( 4c ) formed rolls working ( 4a 1 ), ( 4a 2 ), ( 4b 1 ), ( 4b 2 ), ( 4c 1 ) and ( 4c 2 ) surfaces and the semi-finished product ( 3 ) is put into rotary motion with constant velocity ( n 3 ) in the direction opposite to the direction of rotations of the same three ( 4a ), ( 4b ) and ( 4c ) formed rolls.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

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- PL 393242 A1 20120618 - LUBELSKA POLT [PL]
- BARTNICKI. J; PATER Z.: "Cross-wedge processes of hollowed products", 2005

Citation (search report)

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- [AD] EP 2422896 A1 20120229 - LUBELSKA POLT [PL]
- [A] JP S58110137 A 19830630 - TOKYO SHIBAURA ELECTRIC CO

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