Title (en)

METHOD FOR SHAPING AN INITIAL PROFILE OR A SIMILAR WORKPIECE USING AN INTERNAL HIGH PRESSURE

Title (de)

VERFAHREN ZUM UMFORMEN EINES AUSGANGSPROFILS OD.DGL. WERKSTÜCKES MITTELS EINES INNENHOCHDRUCKES

Title (fr)

PROCEDE POUR FORMER UN PROFIL DE DEPART OU UNE PIECE SIMILAIRE AU MOYEN D'UNE HAUTE PRESSION INTERNE

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Application

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Abstract (en)

[origin: WO0110580A1] The invention relates to a method for shaping an initial profile (16a) or a similar workpiece, which comprises a profile space, into a final profile by using an internal high pressure that is generated in the sealed profile space by a flowable active medium. In order to shape the initial profile (16n) comprising at least one corner area (28n), preferably at least two corner areas (28n), wall sections (34) which connect in the corner area (28n) are preshaped such that their cross-sections are curved counter to the direction of pressure, and are subsequently straightened by the internal high pressure of the flowable active medium while displacing the corner area (28n) in a direction of pressure. To this end, a profile comprising a profile space that is delimited by profile walls (22n) is used in which two profile walls (22n) define a corner area (28n) of the profile cross-section, whereby at least one of the profile walls (22n) connecting in the corner area (28n) is provided with an area (32) having a curved cross-section. A polygonal cross-section whose profile walls (22n) between the corner areas (28n) each comprise the inwardly curved area (32) or with which selected profile walls (22n) which connect two corner areas (28n) preferably offer a curved area (32).

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