

Title (en)  
INTERNAL HIGH PRESSURE SHAPING METHOD FOR SHAPING CONICAL METAL TUBES

Title (de)  
VERFAHREN ZUM INNENHOCHDRUCKUMFORMEN VON KONISCHEN ROHREN AUS METALL

Title (fr)  
PROCEDE POUR LE FORMAGE A HAUTE PRESSION INTERNE DE TUBES CONIQUES EN METAL

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Application  
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Abstract (en)  
[origin: WO2005018846A1] The invention relates to an internal high pressure shaping method for shaping metal tubes (5) produced from metal, especially steel, in a tool (1) that has a die cavity (2) with a complex contour. Said die cavity (2) has cylindrical sections (2a, 2b) on its two opposite ends. The tube which is conical across its entire length is inserted in such a die cavity in such a manner that it lies with its ends (5a, 5b) in the area of the cylindrical sections (2a, 2b). The sealing plugs force the ends (5a, 5b) against the cylindrical sections (2a, 2b), optionally while radially flaring them, so that they come to rest clamped between the wall of the cylindrical sections (2a, 2b) and the sealing plugs. The tube (5) is forced against the complex contour of the die cavity (2) by subjecting the tube (5) to an internal high pressure and simultaneous axial compression of the tube (5).

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