

Title (en)

METHOD AND APPARATUS FOR FORMING THREE-DIMENSIONAL SHAPES IN A SHEET METAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BILDEN VON DREIDIMENSIONALENFORMEN IN EINEM BLECH

Title (fr)

PROCEDE ET APPAREIL DE FORMAGE EN TROIS DIMENSIONS DE TOLES DE METAL

Publication

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Application

EP 03748164 A 20031003

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Abstract (en)

[origin: WO2004030843A1] In the method and apparatus for forming three-dimensional shapes in a sheet metal (1), a counter support (3) is arranged, the sheet metal (1) is clamped in the vicinity of the counter support by its edge, and the counter support (3) and a first surface (5) of the sheet metal are contacted with one another using a first means of conveyance (6); a second means of conveyance (10) is used to press the pressing device (7) against a second surface (9) of the sheet metal, with surface is opposite with respect to the first surface, at a point which is disposed in the vicinity of the contact point between the counter support and the sheet metal; and the pressing device (7) is moved on the second surface of the sheet metal based on the desired shaped along a predetermined path of movement which is growing in respect of its radius around the contact point between the counter support and the sheet metal so that the pressing device presses the sheet metal with a stretching and bending forming force; and the counter support and/or sheet metal are moved with respect to one another as the forming goes on. The movement of the pressing device (7) is controlled by at least a five-axis principle.

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