

Title (en)

Method and apparatus for vacuum forming a flat metal sheet into a thin bowl-like body as well as the use of the method and the apparatus

Title (de)

Vakuumgestütztes Verfahren und Vorrichtung zum Umformen eines im Wesentlichen flächigen Rohlings aus Metall zu einem dünnwandigen Schalenkörper sowie deren Verwendung

Title (fr)

Méthode et dispositif de formage par le vide d'un flan métallique en un corps en forme de cuvette ainsi que l'utilisation de la méthode et du dispositif

Publication

EP 1728567 B1 20090121 (DE)

Application

EP 06010180 A 20060517

Priority

DE 102005024627 A 20050530

Abstract (en)

[origin: EP1728567A1] The assembly (10) to shape a flat metal blank (12) into a thin-wall dish (14) has a carrier structure (16), with a shaping chamber (18), to clamp the blank around its circumference (22). The rear side (24) of the blank is sealed against the leading side (26) away from the chamber. A vacuum is applied to the chamber to evacuate it and draw the blank in while a shaping tool (50) acts on the leading side. The blank and the tool rotate in relation to each other.

IPC 8 full level

B21D 26/02 (2006.01); **B21D 22/18** (2006.01)

CPC (source: EP US)

B21D 22/185 (2013.01 - EP US)

Cited by

DE102010013207A1; WO2011124341A1; WO2011124340A1; CN110479838A; EP2937157A4; CN115921682A; DE102010013206B4; CN114799215A; DE102010013207B4; CN113211351A; CN113601108A; CN117506722A; DE102010013206A1; US9468965B2

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