

Title (en)

Method and apparatus for punching a metal sheet

Title (de)

Verfahren und Vorrichtung zum Lochen eines Bleches

Title (fr)

Procédé et dispositif de poinçonnage d'une tôle

Publication

**EP 1775042 B1 20090401 (DE)**

Application

**EP 05450173 A 20051014**

Priority

EP 05450173 A 20051014

Abstract (en)

[origin: EP1775042A1] In a process to perforate a sheet metal panel (1), the sheet metal is subjected to preliminary deformation. In the next stage the hole is punched and the punch then withdrawn. In a third stage, the metal rim around the hole is de-stressed by a small countersunk profile formed by the punch shoulder (7).

IPC 8 full level

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CPC (source: EP)

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Cited by

FR2940924A1; JP2011183453A; CN107971387A; CN103527916A; CN107983823A; CN109530535A; DE102021132006B3

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