

Title (en)

Method and device for hot forming of sheet metals from titanium based alloys

Title (de)

Verfahren und Vorrichtung zur Warmumformung von Blechen aus titanbasierten Legierungen

Title (fr)

Procédé et dispositif de formage à chaud de tôles en alliages à base de titane

Publication

EP 1972393 B1 20101117 (DE)

Application

EP 08150875 A 20080131

Priority

DE 102007014948 A 20070323

Abstract (en)

[origin: EP1972393A1] The method involves heating titanium sheet (5) by heat radiation of heating units (9) on a hot forming temperature, where the sheet is held between two sealed closed tool halves and the heating units are integrated in a form tool (1). The sheet is deformed against a cold tool contour under the effect of heated gaseous pressurizing medium free from oxidizing components and low pressure produced on a side of the sheet turned from the medium without counter pressure. An independent claim is also included for a forming device for hot forming a sheet from titanium based alloys.

IPC 8 full level

B21D 26/055 (2011.01)

CPC (source: EP US)

B21D 26/055 (2013.01 - EP US); **B21D 37/16** (2013.01 - EP US); **Y10S 72/709** (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Cited by

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DE FR GB

DOCDB simple family (publication)

EP 1972393 A1 20080924; **EP 1972393 B1 20101117**; DE 102007014948 A1 20080925; DE 502008001792 D1 20101230; US 2008229797 A1 20080925; US 7832245 B2 20101116

DOCDB simple family (application)

EP 08150875 A 20080131; DE 102007014948 A 20070323; DE 502008001792 T 20080131; US 7646208 A 20080319