

Title (en)

METHOD OF MANUFACTURING HOT PRESS-FORMED PART, AND HOT PRESS-FORMED PART

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES HEISSPRESSGEFORMTEN TEILS UND HEISSPRESSGEFORMTES TEIL

Title (fr)

PROCÉDÉ DE FABRICATION DE PRODUIT FORMÉ À LA PRESSE À CHAUD, ET PRODUIT FORMÉ À LA PRESSE À CHAUD

Publication

EP 3199257 A1 20170802 (EN)

Application

EP 15843885 A 20150907

Priority

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- JP 2015004533 W 20150907

Abstract (en)

A method of manufacturing a hot press-formed part by hot pressing a coated steel sheet formed with a Zn-Ni plating layer on a surface of a steel sheet includes: heating the coated steel sheet to a temperature range of Ac 3 transformation temperature to 1000°C; cooling the coated steel sheet to 550-410°C at a cooling rate of 100°C/s or higher by squeezing the coated steel sheet with a press tool for cooling having flat surfaces configured to contact the coated steel sheet; press forming the coated steel sheet with a tool of press forming to obtain a formed body, the press forming being initiated within 5 seconds after the cooling while the temperature of the coated steel sheet is 550-400°C; and quenching the formed body, while squeezing the formed body with the tool of press forming and holding at its press bottom dead center, to obtain a hot press-formed part.

IPC 8 full level

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