

Title (en)

A METHOD AND DEVICE FOR GENERATING DEFORMATION TWINNING IN A METAL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERZEUGUNG VON VERFORMUNGS-ZWILLINGSBILDUNG BEI EINEM METALL

Title (fr)

PROCÉDÉ ET DISPOSITIF DE GÉNÉRATION DE MACLAGE PAR DÉFORMATION DANS UN MÉTAL

Publication

**EP 3289110 A1 20180307 (EN)**

Application

**EP 16722535 A 20160425**

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Abstract (en)

[origin: WO2016173956A1] The present disclosure relates to: a method of generating twin lamellas in a metal body (1), comprising the steps of: - introducing said metal body (1) into a chamber (2); - filling said chamber (2) with a cooling medium having a temperature that will enable generation of twin lamellas in the metal body (1) upon deformation thereof; and - deforming said metal body (1) while the latter is surrounded by said cooling medium; wherein the cooling medium surrounding said metal body (1) upon deformation of the latter is in a gaseous state. The present disclosure also relates to: a device for generating twin lamellas in a metal body (1), said device comprising: - a chamber (2); - a chamber (2) inlet connected to a cooling medium source (4); and - a deformation device (5) for deforming said metal body (1); said deformation device (5) being positioned inside said chamber (2); wherein the deformation device (5) is positioned so that the metal body (1) will be surrounded by said cooling medium in a gaseous state while being deformed by said deformation device (5).

IPC 8 full level

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See references of WO 2016173956A1

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