

Title (en)

PROCESS AND PRODUCTION LINE FOR FORMING OBJECTS

Title (de)

VERFAHREN UND PRODUKTIONSLINIE ZUM BILDEN VON GEGENSTÄNDEN

Title (fr)

PROCÉDÉ ET CHAÎNE DE PRODUCTION POUR LA FORMATION D'OBJETS

Publication

**EP 4077741 A1 20221026 (EN)**

Application

**EP 20842697 A 20201218**

Priority

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- EP 2020087102 W 20201218

Abstract (en)

[origin: WO2021123225A1] The present invention relates to a process for forming a metal component (20), the process comprising the steps of heating a metal blank (20) coated with a protective layer; cooling said metal blank (20) in a confined space (14), said cooling involving cooling by means of a gas, the gas being cooled by heat exchange with a cooling surface of a heat sink (22) inside said confined space (14), wherein a low frequency sound wave is provided into said confined space (14) in order to improve heat exchange both between the gas and a cooling surface of the at least one heat sink (22), and between the gas and the metal component (20), wherein the heated coated blank is cooled to a temperature below the melting point of the protective layer, and forming the coated blank to a component. The invention also relates to a production line for performing the process.

IPC 8 full level

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CPC (source: EP US)

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