

Title (en)

MOLDING METHOD, HEAT TREATMENT SYSTEM, AND MOLDED PRODUCT

Title (de)

FORMVERFAHREN, WÄRMEBEHANDLUNGSSYSTEM UND FORMPRODUKT

Title (fr)

PROCÉDÉ DE MOULAGE, SYSTÈME DE TRAITEMENT THERMIQUE ET PRODUIT MOULÉ

Publication

EP 4316684 A1 20240207 (EN)

Application

EP 22781078 A 20220330

Priority

- JP 2021056979 A 20210330
- JP 2022015940 W 20220330

Abstract (en)

In heating step S101, a steel sheet is heated and made in an austenite state. In heating step S101, the whole region of the steel sheet is evenly heated, and the whole region of the steel sheet is made in the austenite state. In cooling step S102, only a first region set on the steel sheet in the austenite state is forcibly cooled (rapidly cooled) within a temperature range of a range where martensitic transformation does not occur. In cooling step S102, a second region other than the first region is cooled by natural cooling to maintain a state in which a temperature is higher than in the first region.

IPC 8 full level

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CPC (source: EP US)

C21D 1/18 (2013.01 - US); **C21D 1/673** (2013.01 - EP); **C21D 8/0205** (2013.01 - US); **C21D 8/0221** (2013.01 - US); **C21D 8/0294** (2013.01 - US); **C21D 9/0062** (2013.01 - US); **C21D 9/46** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US); **C21D 2211/009** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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