Title (en)

METHOD FOR PRODUCING A STEEL COMPONENT WITH A SHARP BOUNDED TRANSITION REGION WHICH IS THERMOFORMED AND PRESS-HARDENED

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WARMUMFORM- UND PRESSGEHÄRTETEN STAHLBAUTEILS MIT SCHARF BERANDETEM ÜBERGANGSBEREICH

Title (fr)

PROCEDE DE FABRICATION D'UN COMPOSANT EN ACIER DEFORME A CHAUD ET DURCI A LA PRESSE COMPRENANT UNE ZONE DE TRANSITION A ARETES VIVES

Publication

EP 3037186 B1 20170809 (DE)

Application

EP 15198756 A 20151209

Priority

DE 102014119545 A 20141223

Abstract (en)

[origin: US2016175910A1] The present invention relates to a hot forming tool (1) comprising a top tool (2) and a bottom tool (3), both of which can be moved towards each other; and, when the hot forming tool (1) is closed, a mold cavity (19) is formed between the top tool (2)and the bottom tool (3), wherein the top tool (2) and/or the bottom tool (3) is/are divided into at least two segments (4, 5, 6, 7, 8, 9), said hot forming tool being characterized in that one segment is designed as a heating segment (6, 9); and said heating segment (6, 9)comprises a compensating element (16) on a side opposite the mold cavity (19), so that a thermal expansion of the heating segment (6, 9) in the press stroke direction (18) is compensate for.

IPC 8 full level

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CPC (source: CN EP US)

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EP4065296A4; EP3778054A1; WO2021102573A1; WO2021028230A1; WO2019034464A1

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