

Title (en)
METHOD FOR PRODUCING A SHAPED COMPONENT COMPRISING AT LEAST TWO JOINING AREAS HAVING DIFFERENT DUCTILITY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES FORMBAUTEILS MIT MINDESTENS ZWEI GEFÜGEBEREICHEN UNTERSCHIEDLICHER DUKTILITÄT

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE PIÈCE FAÇONNÉE COMPRENANT AU MOINS DEUX ZONES STRUCTURELLES À DUCTILITÉ DIFFÉRENTE

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Application
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Priority
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Abstract (en)
[origin: DE102007057855B3] Production of moldings with structure zones (2, 3) of different ductility comprises: (A) cutting a blank (7) from strip (4) of aluminum/silicon coated high-tensile steel; heating it to 830 - 850[deg] C in the first zone (8) of a multizone furnace (11); moving it after the desired dwell time to a second section of the furnace where one zone (12) of the blank is held at 550 - 650[deg] c in one zone (9), while the other (13) is held at 830 - 950[deg] c in a second zone (10); and heat-forming the blank. Independent claims are included for: (A) a similar process, but in which the strip itself is preheated before the blank is cut and this is then heated to different temperatures in two zones; and a similar process, but in which the blank is cooled after the preheating stage before it is heated in the two zones.

IPC 8 full level
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CPC (source: EP US)
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Citation (examination)
DE 102004049413 A1 20060413 - VOLKSWAGEN AG [DE], et al

Citation (opposition)
Opponent : Puchberger & Partner Patentanwälte
• DE 69933751 T2 20071004 - ARCELOR FRANCE [FR]
• DE 10208216 C1 20030327 - BENTELER AUTOMOBILTECHNIK GMBH [DE]
• WO 2005009642 A1 20050203 - DAIMLER CHRYSLER AG [DE], et al
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• EP 0106113 A1 19840425 - MESSER GRIESHEIM GMBH [DE]
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• US 5972134 A 19991026 - BUSCHSIEWEKE OTTO [DE], et al
• DE 10049660 A1 20020425 - DAIMLER CHRYSLER AG [DE], et al
• DE 102005003551 A1 20060727 - VOLKSWAGEN AG [DE]
• WO 03018338 A1 20030306 - ACCRA TEKNIK AB [SE], et al
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