

Title (en)

Partially reinforced aluminium cast construction part and method of manufacturing same

Title (de)

Partiell verstärktes Al-GussBauteil und Verfahren zu dessen Herstellung

Title (fr)

Composant de construction moulé en aluminium renforcé partiellement et procédé de fabrication

Publication

**EP 0640759 B1 19970305 (DE)**

Application

**EP 94112615 A 19940812**

Priority

DE 4328619 A 19930826

Abstract (en)

[origin: EP0640759A1] The invention relates to a partially reinforced aluminium cast component comprising an aluminium casting and a spray-compacted aluminium reinforcing part at least partially enclosed, by being cast in, by the base material of the casting. The method for manufacturing such a component comprises the formation of a reinforcing element from spray-compacted material, the insertion of this element into the casting mould, the surrounding of the reinforcing element with an aluminium casting alloy and the solidification of the melt. A component of this kind is distinguished by the fact that a complete, strong material bond is present in the joints between the aluminium casting and the reinforcing part.

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

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Cited by

EP0807750A1; CN103221673A; US6112715A; CN104185529A; FR2849899A1; EP1439301A1; WO2012065661A1; WO9748895A1; US9429100B2; WO2013144072A1

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