

Title (en)

METHOD FOR PRODUCING METAL-BASED COMPOSITE MATERIAL

Title (de)

VERFAHREN ZUR HERSTELLUNG VON KOMPOSITMATERIALIEN AUF METALLBASIS

Title (fr)

PROCEDE DE PRODUCTION D'UN MATERIAU COMPOSITE A BASE DE METAL

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Application

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Priority

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Abstract (en)

A method for producing a metal based composite material comprising a matrix metal containing a reinforcing filler in at least a part thereof, characterized as comprising (1) charging at least one reinforcing filler in the form of fibers or particles and at least one penetration-enhancing metal into an aluminum container, (2) submerging the aluminum container in the state of having an oxygen-containing gas remaining therein into a melt of a matrix metal comprising an aluminum alloy or a magnesium-aluminum alloy, (3) dissolving the aluminum container in the matrix melt, to thereby render the melt of the matrix metal to penetrate into the reinforcing filler, and then (4) solidifying the melt of the matrix metal. <IMAGE>

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IPC 8 full level

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