

Title (en)

Processing body for grinding a dispensed product

Title (de)

Bearbeitungskörper zum Zerkleinern eines Aufgabeguts

Title (fr)

Corps de traitement pour le broyage d'un matériau de chargement

Publication

EP 2450132 A2 20120509 (DE)

Application

EP 11187295 A 20111031

Priority

DE 102010043353 A 20101103

Abstract (en)

Machining body for crushing a feed material, comprises a cast carrier matrix (4) as a metal cast body (1), and at least one insertion body (7), which is embedded in the cast carrier matrix. The insertion body increases the wear resistance of a functional- or wear surface (2) of the machining body. The insertion body is a pressing- or sintered body of a mixture of metal powder and hard material or a die-cast body comprising a hard material in a die cast matrix made of die cast metal, or comprises a body in a composite. Independent claims are also included for: (1) the insertion body for the machining body; (2) producing the machining body for crushing material, comprising (a) producing at least one insertion body by at least pressing, preferably isostatic pressing of a mixture of metal powder and hard material, or by die casting of the die cast metal as the die cast matrix, which at least partially surrounds the hard material, (b) arranging at least one insertion body into a cast mold, and (c) casting the cast mold with a wear-resistant iron-based alloy, preferably a wear-resistant cast iron, so that the iron-based alloy at least partially surrounds at least one insertion body; and (3) repairing the machining body comprising welding a welding material on the functional- or wear surface of the machining body, where the welding material comprises at least one metal and the hard material.

Abstract (de)

Bearbeitungskörper zum Zerkleinern eines Aufgabeguts, der als Metallgusskörper (1) eine Gussträgermatrix (4) und wenigstens einen in der Gussträgermatrix (4) eingebetteten, die Verschleißfestigkeit einer Funktions- bzw. Verschleißfläche (2) des Bearbeitungskörpers erhöhenden Einlegekörper (7) umfasst., dadurch gekennzeichnet, dass der Einlegekörper (7) ein Press- oder Sinterkörper einer Mischung aus Metallpulver und Hartstoffmaterial oder ein Druckgusskörper, welcher ein Hartstoffmaterial in einer Druckgussmatrix (12) aus Druckgussmetall umfasst, ist oder solch einen Körper in einem Verbund umfasst.

IPC 8 full level

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CPC (source: EP)

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Citation (applicant)

DE 10122886 B4 20060914 - SHW CASTING TECHNOLOGIES GMBH [DE]

Cited by

EP3216543A4; BE1027444B1; US10940532B2; US11534822B2; WO2021160381A1

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