

Title (en)
Cutting blade and method for its production

Title (de)
Schneidmesser und Verfahren zu dessen Herstellung

Title (fr)
Couteau et son procédé de fabrication

Publication
EP 2283953 B1 20140312 (DE)

Application
EP 10006679 A 20100628

Priority
DE 102009031916 A 20090706

Abstract (en)
[origin: EP2283953A1] The cutting tool for high-speed slicing of food products, comprises a process area (12, 14) that transfers by a hot isostatic pressing process in initial condition and in a finished condition and is connected with a base body (13) of the cutting tool and/or with a further process area. The process area forms a cutting area of the cutting tool, which defines a radial cutting edge (21) of the cutting tool showing towards outside. The process area forms a reception- or mounting area of the cutting tool and consists of powder metallurgical steel. The cutting tool for high-speed slicing of food products, comprises a process area (12, 14) that transfers by a hot isostatic pressing process in initial condition and in a finished condition and is connected with a base body (13) of the cutting tool and/or with a further process area. The process area forms a cutting area of the cutting tool, which defines a radial cutting edge (21) of the cutting tool showing towards outside. The process area forms a reception- or mounting area of the cutting tool and consists of powder metallurgical steel. The base body consists of non-powder metallurgical materials. The base body is constructed out of a material that finds out in a hardening process of no essential characteristic change subsequent itself at the hot-isostatic pressing process. The base body is formed as plate or disc. The process area forming a cutting area of the cutting tool is subjected on an external circumference area of the base body, is formed in half circular manner and/or has the form of a closed ring. A flush transition is provided between the process area and the base body and/or between process areas. The cutting tool is formed as rotating and planetary rotating circular knife or as rotating sickle-, spiral-, or cutter tool. Independent claims are included for: (1) a device for high-speed slicing of food products; and (2) a method for the production of cutting tools.

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Citation (examination)
JP H11106801 A 19990420 - DAIDO AMISTAR KK

Cited by
CN106041088A; DE102014014238A1

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