

Title (en)
Method for making a blade and blade manufactured thereby

Title (de)
Trennscheibe und Verfahren zum Herstellen derselben

Title (fr)
Lame de coupe et procédé pour sa fabrication

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Application
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Abstract (en)
The present invention provides a blade material and a manufacturing method thereof adapted to maintain high wear resistance, high hardness, and relatively small specific gravity by using light alloy having a high hardness. A method for making a blade and blade manufactured thereby according to the present invention comprises the steps of preparing a powder mixture having 10-90 weight % of a first matter and 10-90 weight % of a second matter out of a total of 100 weight %, wherein the first matter is Carbide Vanadium (VC) having seven or less specific gravity, and the second matter is Titanium (Ti) or Titanium (Ti) alloy powder having seven or less specific gravity. A molded material is then obtained by packing the powder mixture into a mold and then pressing it. Finally, the molded material is sintered at below 1500 DEG C, wherein the molded and sintered material has a hardness equal to or larger than HRA60 and seven or less specific gravity.

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- [XA] US 3737290 A 19730605 - FREHN F
- [A] DE 19720706 A1 19971120 - EBARA CORP [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08 6 October 2000 (2000-10-06)

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