

Title (en)

Free cutting alloy

Title (de)

Automatenlegierung

Title (fr)

Alliage de décolletage

Publication

EP 1431409 B1 20060705 (EN)

Application

EP 04004043 A 20000901

Priority

- EP 00118990 A 20000901
- JP 25090299 A 19990903
- JP 2000070257 A 20000314
- JP 2000221433 A 20000721
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- JP 2000251626 A 20000822

Abstract (en)

[origin: EP1085105A2] Provided is free cutting alloy excellent in machinability, preserving various characteristics as alloy. The free cutting alloy contains: one or more of Ti and Zr as a metal element component; and C being an indispensable element as a bonding component with the metal element component, wherein a (Ti,Zr) based compound including one or more of S, Se and Te is formed in a matrix metal phase. The free cutting alloy is more excellent in machinability, preserving various characteristics as alloy at similar levels to a conventional case. The effect is especially conspicuous, for example, when a compound expressed in a chemical form of (Ti,Zr)₄C₂(S,Se,Te)₂ as the (Ti,Zr) based compound is formed at least in a dispersed state in the alloy structure. <IMAGE>

IPC 8 full level

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