

Title (en)

ROTARY CUTTING TOOL FOR WORKING OF WOOD OR WOOD COMPOSITE MATERIAL

Title (de)

ROTIERENDES SCHNEIDWERKZEUG ZUM BEARBEITEN VON HOLZ ODER HOLZVERBUNDWERKSTOFF.

Title (fr)

OUTIL DE COUPE ROTATIF POUR LE TRAVAIL DU BOIS OU D'UN MATERIAU COMPOSITE A BASE DE BOIS

Publication

**EP 0739697 A1 19961030 (EN)**

Application

**EP 94927063 A 19940919**

Priority

- JP 9401537 W 19940919
- JP 25932393 A 19930921

Abstract (en)

A rotary cutting tool provided with an edge comprising a peripheral cutting edge and a side cutting edge. A flank 4 in the side cutting edge, of which the clearance angle in the direction of rotation is not more than 10 DEG , is finished to a surface roughness Rmax of 1 to 10  $\mu$ m, and the outermost surface thereof has a covering of one member selected from the group consisting of chromium and a nitride, a carbide, and a carbonitride of chromium. The above construction can eliminate the deposition of harmful gum on a cutting tool. The service life of this tool is at least 10 times longer than that of the conventional tools. This enables a high-speed tool steel to be used instead of a cemented carbide as an edge material, resulting in reduced cost. <IMAGE>

IPC 1-7

**B27G 15/00**

IPC 8 full level

**B23D 61/04** (2006.01); **B27G 13/00** (2006.01); **B27G 13/08** (2006.01); **B27G 15/00** (2006.01); **C23C 30/00** (2006.01)

CPC (source: EP)

**B23D 61/04** (2013.01); **B27G 13/00** (2013.01); **B27G 15/00** (2013.01); **C23C 30/005** (2013.01)

Cited by

CN106113171A; EP1591184A1; GB2352207A; GB2352207B; US2011033722A1; EP2279837A4; US8435651B2; CN1305650C; DE102004043550B4; EP1424176A4; US8492008B2; US7246586B2; EP1322453B1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**WO 9508423 A1 19950330**; CA 2172366 A1 19950330; DE 69425277 D1 20000817; DE 69425277 T2 20010222; DE 69425277 T3 20050623; EP 0739697 A1 19961030; EP 0739697 A4 19980128; EP 0739697 B1 20000712; EP 0739697 B2 20040922; JP 2673655 B2 19971105; JP H0788806 A 19950404

DOCDB simple family (application)

**JP 9401537 W 19940919**; CA 2172366 A 19940919; DE 69425277 T 19940919; EP 94927063 A 19940919; JP 25932393 A 19930921