

Title (en)
PROCESS FOR SHAPING A WORK PIECE AND CORRESPONDING DEVICE

Title (de)
VERFAHREN ZUM BEARBEITEN EINES WERKSTÜCKES UND ZUGEHÖRIGE VORRICHTUNG

Title (fr)
PROCEDE POUR L'USINAGE D'UNE PIECE ET DISPOSITIF CORRESPONDANT

Publication
EP 1047513 B1 20040303 (DE)

Application
EP 98961245 A 19981201

Priority
• DE 19754091 A 19971207
• DE 19815264 A 19980404
• EP 9807782 W 19981201

Abstract (en)
[origin: WO9929450A1] The invention relates to a method for shaping a work piece (1) held between a counter holder (4, 4.1) and a guide (5, 5.1, 5.2) by a clamping force in which a profile section (3), for example, a precision teething is shaped in an area (2) of the work piece (1), whereby the shaping occurs at an angle to the clamping force (14.1, 14.2).

IPC 1-7
B21K 1/30; B21J 5/12

IPC 8 full level
B21J 5/12 (2006.01); **B21K 1/30** (2006.01)

CPC (source: EP US)
B21J 5/068 (2020.08 - EP US); **B21K 1/30** (2013.01 - EP US)

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI PT SE

DOCDB simple family (publication)
WO 9929450 A1 19990617; WO 9929450 A8 19991125; AT E260722 T1 20040315; CA 2318732 A1 19990617; CA 2318732 C 20040622; DE 59810933 D1 20040408; EP 1047513 A1 20001102; EP 1047513 B1 20040303; ES 2217609 T3 20041101; JP 2003509214 A 20030311; JP 4212235 B2 20090121; PT 1047513 E 20040930; RU 2216426 C2 20031120; US 2002112521 A1 20020822; US 6327887 B1 20011211; US 6584822 B2 20030701

DOCDB simple family (application)
EP 9807782 W 19981201; AT 98961245 T 19981201; CA 2318732 A 19981201; DE 59810933 T 19981201; EP 98961245 A 19981201; ES 98961245 T 19981201; JP 2000524095 A 19981201; PT 98961245 T 19981201; RU 2000117853 A 19981201; US 55579700 A 20000718; US 97655801 A 20011011