

Title (en)
HIGH-SPEED PROCESSING TAP

Title (de)
HOCHGESCHWINDIGKEITSBOHRER

Title (fr)
TARAUD A GRANDE VITESSE DE TRAITEMENT

Publication
EP 1611983 A8 20060510 (EN)

Application
EP 04716346 A 20040302

Priority

- JP 2004002543 W 20040302
- JP 2003070488 A 20030314

Abstract (en)
[origin: EP1611983A1] A high-speed forming tap (1) for cutting and forming a female screw by cutting edges (E) of a screw portion (2) fed in synchronous with the rotation of a machine tool. The high-speed forming tap is characterized in that chamfers (CF) are provided at a bevel lead (2a) of the screw part (2). The chamfers (CF) start from the cutting edge (E) and are provided along ridgelines (R) between a crest face (2e) and flanks, or a following flank (2c) and a leading flank (2d). This structure enables the shape of the edges of the tap leading portion to be stably maintained and high-speed, smooth female screw cutting with high accuracy, and provides a tap with long life.

IPC 1-7
B23G 5/06

IPC 8 full level
B23G 5/06 (2006.01)

CPC (source: EP US)
B23G 5/06 (2013.01 - EP US); **Y10T 408/90467** (2015.01 - EP US); **Y10T 408/906** (2015.01 - EP US)

Citation (search report)
See references of WO 2004080637A1

Cited by
EP4194128A1; US2012295519A1; WO2023104613A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1611983 A1 20060104; EP 1611983 A4 20070404; EP 1611983 A8 20060510; EP 1611983 B1 20100616; CN 100566902 C 20091209; CN 1787893 A 20060614; DE 602004027716 D1 20100729; JP 2004276164 A 20041007; JP 3787124 B2 20060621; US 2006127193 A1 20060615; US 7468001 B2 20081223; WO 2004080637 A1 20040923

DOCDB simple family (application)
EP 04716346 A 20040302; CN 200480013176 A 20040302; DE 602004027716 T 20040302; JP 2003070488 A 20030314; JP 2004002543 W 20040302; US 54945205 A 20050914