

Title (en)

METHOD AND DEVICE FOR THE HYDRO-EROSIVE ROUNDING OF AN EDGE OF A COMPONENT

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HYDRO-EROSIVEN VERRUNDEN EINER KANTE EINES BAUTEILS

Title (fr)

PROCEDE ET DISPOSITIF PERMETTANT D'ARRONDIR PAR HYDRO-EROSION L'ARETE D'UNE PIECE

Publication

EP 1519810 A1 20050406 (DE)

Application

EP 03740095 A 20030617

Priority

- DE 0302023 W 20030617
- DE 10230170 A 20020704

Abstract (en)

[origin: WO2004004974A1] The invention relates to a method and a device for the hydro-erosive rounding of an edge of a component, in particular, an edge in a channel of a high-pressure resistant component, whereby a fluid charged with abrasive bodies is run along the edge for rounding and the flow speed in the vicinity of the edge for rounding is increased by means of a body arranged in the fluid flow path. According to the invention, with relation to the method, the flow speed of the fluid (6) is increasingly raised along the course of the body (7) until the edge (5) for rounding is reached by means of the geometry of the body (7) and, with relation to the device, the cross-sectional area of the flow channel (10) continuously declines in the direction of flow (S) of the fluid (6) along the length of the body (7) at least as far as the edge (5).

IPC 1-7

B24C 1/00; **B24C 3/32**; **B24B 31/116**; **B24B 9/00**

IPC 8 full level

B24B 9/00 (2006.01); **B24B 31/00** (2006.01); **B24B 31/116** (2006.01); **B24C 1/00** (2006.01); **B24C 3/32** (2006.01); **F02M 55/02** (2006.01); **F02M 59/44** (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

B24B 9/00 (2013.01); **B24B 31/116** (2013.01); **B24C 1/00** (2013.01); **B24C 1/083** (2013.01); **B24C 3/325** (2013.01); **F02M 55/025** (2013.01); **F02M 59/44** (2013.01); **F02M 61/168** (2013.01); **F02M 61/1806** (2013.01)

Citation (search report)

See references of WO 2004004974A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 2004004974 A1 20040115; DE 10230170 B3 20040304; EP 1519810 A1 20050406; JP 2005536362 A 20051202

DOCDB simple family (application)

DE 0302023 W 20030617; DE 10230170 A 20020704; EP 03740095 A 20030617; JP 2004518400 A 20030617