

Title (en)
TOOL-CLAMPING DEVICE, ESPECIALLY FOR GRINDING WHEELS

Publication
EP 0366105 B1 19930811 (DE)

Application
EP 89119799 A 19891025

Priority
DE 8813580 U 19881028

Abstract (en)
[origin: US5163250A] A securing apparatus for a tool, especially a grinding wheel, including a rotatably driven spindle and a hydraulically expandable securing member, which is provided for securing the tool on the spindle and is provided with at least one hydraulic medium chamber. The securing member is a securing sleeve that is provided on the spindle, with the at least one hydraulic medium chamber communicating with a first bore that extends through the spindle and is provided for supplying the hydraulic medium. The spindle is provided with a tightening screw that can selectively close off the first bore and can be backed off into a pressure relief position. At least one axial securing element is disposed on the securing apparatus in such a way as to be axially displaceable and is adapted to be positively connected with the tool in the axial direction.

IPC 1-7
B24B 45/00

IPC 8 full level
B23B 31/02 (2006.01); **B23B 31/117** (2006.01); **B24B 45/00** (2006.01); **B27B 5/32** (2006.01)

CPC (source: EP US)
B24B 45/00 (2013.01 - EP US); **B27B 5/325** (2013.01 - EP US)

Cited by
DE10064163A1; DE10064163C2; US6966824B2

Designated contracting state (EPC)
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US 5163250 A 19921117; AT E92825 T1 19930815; DE 58905251 D1 19930916; DE 8813580 U1 19890105; EP 0366105 A2 19900502; EP 0366105 A3 19910313; EP 0366105 B1 19930811; JP H02237765 A 19900920

DOCDB simple family (application)
US 42836789 A 19891027; AT 89119799 T 19891025; DE 58905251 T 19891025; DE 8813580 U 19881028; EP 89119799 A 19891025; JP 27874189 A 19891027