

Title (en)
DEVICE FOR SHARPENING DRILL BITS

Publication
EP 0201789 A3 19870902 (DE)

Application
EP 86105799 A 19860426

Priority
DE 3517034 A 19850511

Abstract (en)
[origin: US4716688A] This invention relates to a fixture for holding a hole-cutting tool having cutting edges to be ground by means of a grinding wheel. The fixture comprising a stand carrying a pin and also comprises a gripping unit comprising two interconnected gripping jaws and detachably mounted on said pin in one predetermined position and adapted to be mounted thereon in at least one additional predetermined position, which jaws are adapted to grip said tool along an intermediate portion of its length. It is an object of the invention to provide such a tool-holding fixture which can be used in the crafts and in industry to grind relatively large twist drills or other hole-cutting tools which are 20, 40, 60 mm or even larger in diameter. This object is accomplished by the provision of an angle bracket, which comprises a vertical back structure and a horizontal base, wherein the pin for detachably mounting the jaw unit is carried by and rises vertically from the base and the vertical back structure is pivoted to the stand on a horizontal pivotal axis, which extends across the longitudinal axis of a hole-cutting tool gripped by the gripping unit and adjacent to the cutting tip of such tool so that the tool is pivotally movable about the pivotal axis.

IPC 1-7
B24B 3/28

IPC 8 full level
B24B 3/26 (2006.01); **B24B 3/28** (2006.01)

CPC (source: EP US)
B24B 3/28 (2013.01 - EP US)

Citation (search report)
• [X] DE 1011316 B 19570627 - BAYER MASCHINENFABRIK GEB
• [X] DE 956203 C 19570117 - BAYER MASCHINENFABRIK GEB
• [A] DE 3039649 A1 19820519 - REILING REINHOLD, et al
• [A] US 4176499 A 19791204 - MAZOFF JOSEPH [US]
• [A] US 2580884 A 19520101 - BOWMAN ALBERT H
• [A] PATENT ABSTRACTS OF JAPAN, Band 8, Nr. 249 (M-338)[1686], 15. November 1984; & JP-A-59 124 557 (SUZUKOU SHOJI K.K.) 18-07-1984

Cited by
EP0256249A3; FR2681277A1; GB2207070A; GB2207070B

Designated contracting state (EPC)
AT BE CH FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0201789 A2 19861120; EP 0201789 A3 19870902; DE 3517034 C1 19870115; ES 296875 U 19880901; ES 296875 Y 19890316; ES 296879 U 19880901; ES 296879 Y 19890316; JP S61260971 A 19861119; US 4716688 A 19880105

DOCDB simple family (application)
EP 86105799 A 19860426; DE 3517034 A 19850511; ES 296875 U 19860509; ES 296879 U 19860509; JP 10838586 A 19860512; US 85509286 A 19860422