

Title (en)

FASTENING DEVICE FOR DISC-LIKE TOOLS ON A TOOL SPINDLE OF A PORTABLE ELECTRIC MACHINE TOOL

Publication

**EP 0253181 B1 19920916 (DE)**

Application

**EP 87109270 A 19870627**

Priority

DE 3623555 A 19860712

Abstract (en)

[origin: US4779382A] A mechanism for mounting a sanding disk to the spindle of a portable right-angled grinder that will allow the connection to be released without extra tools. The mechanism consists essentially of a hollow spindle (18), of a tensioning anchor (22) that is accommodated inside the spindle (18) such that it can slide back and forth axially subject to an activating mechanism (54) but cannot rotate, and of two flanges that accommodate the sanding disk (28) between them, one of which, a mating flange that constitutes a support (20), is rigidly secured to the spindle, and the other of which, the tensioning flange (26), is loosely secured to the tensioning anchor (22). Between mutually facing demarcating surfaces (34 & 36) of the tensioning anchor (22) and the spindle (18) is a space (39) that communicates with another space (44) in the tensioning anchor (22). The spaces (39 & 44) are full of a plastic material (40) that can transmit force hydraulically. A piston (46) is accommodated in the second space (44), slides back and forth subject to the activating mechanism (54), forcing the plastic material out and creating tensioning force in the space (39), and can be secured in the tensioning position.

IPC 1-7

**B24B 45/00**

IPC 8 full level

**B24B 45/00** (2006.01)

CPC (source: EP KR US)

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Cited by

CN103182704A; CN110842718A; CN103182707A; EP2085182A1; EP0324357A3; US5199223A; US8182316B2; US9821430B2; US9067293B2; US6708987B1; WO2013049482A3; WO0110600A1; WO2012089640A1

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