

Title (en)

Quick coupling system for an abrasive disc to the rotary shaft of a portable grinding machine

Title (de)

Schnellkupplungssystem für das Befestigen einer Schleifscheibe an die Drehwelle einer Handschleifmaschine

Title (fr)

Système de couplage rapide pour la fixation d'un disque abrasif sur un arbre rotatif d'une affûteuse portable

Publication

EP 2248629 A1 20101110 (EN)

Application

EP 09169664 A 20090907

Priority

IT PR20090034 A 20090507

Abstract (en)

A coupling system, for coupling an abrasive disc (2) to the drive shaft of a portable grinding machine. The system including a backing flange (8) and a retainer ring nut (10). The retainer ring nut (10) is made of plastic or metal and fixed to the abrasive disc (2) via adhesive (5). In one embodiment the retainer ring nut (10) has a circular flange (6), which is inserted into the middle hole (9) of the abrasive disc (2), wherein the height of the circular flange (6) is less than the height of the disc hole (9). In case of thin abrasive discs the retainer ring nut (10) has a circular depression (11) into which a part of a projection (7) of the backing flange (8) can be inserted.

IPC 8 full level

B24B 23/02 (2006.01); **B24B 45/00** (2006.01)

CPC (source: EP)

B24B 23/02 (2013.01); **B24B 45/006** (2013.01)

Citation (applicant)

- US 4694615 A 19870922 - MACKAY JR JOSEPH H [US]
- US 5287659 A 19940222 - TIMMONS RUSSELL M [US], et al
- DE 102005050836 A1 20070426 - EISENBLAETTER GERD GMBH [DE]

Citation (search report)

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- [X] EP 1213107 A1 20020612 - C & E FEIN GMBH & CO KG [DE]
- [XD] US 5287659 A 19940222 - TIMMONS RUSSELL M [US], et al
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Designated extension state (EPC)

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