

Title (en)
DISPOSABLE GRINDING APPARATUS HAVING AN INTEGRAL MOUNTING HUB.

Title (de)
WEGWERFSCHLEIFVORRICHTUNG MIT EINGEBAUTEM MONTAGEDORN.

Title (fr)
APPAREIL DE MEULAGE JETABLE EQUIPE D'UN MOYEU DE MONTAGE INCORPORE.

Publication
EP 0318476 A4 19900220 (EN)

Application
EP 87903007 A 19870327

Priority
• US 581287 A 19870121
• US 581387 A 19870121
• US 84779386 A 19860403

Abstract (en)
[origin: WO8705847A1] A disposable grinding apparatus such as a depressed center grinding wheel (10) for mounting on a rotatable threaded spindle (14) of a power tool (16). The grinding wheel (10) contains a retaining nut (44) on one side thereof and a backing flange (28) on the other side thereof non-removably secured together on the grinding wheel (10) without the aid of adhesives in such a manner that the grinding wheel is placed in compression when it is operably secured upon the spindle of the power tool under grinding loads. The nut (44) and flange (28) are secured together by upsetting one end (52) of the nut (44) causing it to protrude outwardly over the outer surface of the flange (28). A base assembly (60) is loosely secured to the spindle (14) of the power tool (16) for engaging the outer surface (38) of the backing flange (28) during operation of the grinding wheel (10). Alternatively, a pressure cap member (90) is secured to the outwardly protruding portion (56) of the nut (44) for engaging a shoulder formed on the spindle of the power tool during operation of the grinding wheel.

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IPC 8 full level
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CPC (source: EP)
B24D 5/16 (2013.01); **B24D 7/16** (2013.01)

Citation (search report)
• [X] US 3912411 A 19751014 - MOFFAT ROBERT H
• [Y] US 3879178 A 19750422 - BOSMA ROBERT W
• [Y] US 3623281 A 19711130 - MOFFAT ROBERT H
• [E] WO 8806507 A1 19880907 - BLACK & DECKER INC [US]
• See references of WO 8705847A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 8705847 A1 19871008; AU 595604 B2 19900405; AU 7301487 A 19871020; CA 1305860 C 19920804; CN 1008894 B 19900725; CN 87102592 A 19871014; EP 0318476 A1 19890607; EP 0318476 A4 19900220; JP H01500578 A 19890301

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