

Title (en)  
Ventilating insert for abrasive tools

Title (de)  
Belüftungseinsatz für Abriebwerkzeuge

Title (fr)  
Insert de ventilation pour outils abrasifs

Publication  
**EP 2363241 A1 20110907 (EN)**

Application  
**EP 11155369 A 20110222**

Priority  
IT MO20100053 A 20100305

Abstract (en)  
A ventilating insert for the substantially coaxial fixing of abrasive tools, such as deburring wheels, cutting wheels, fiber discs, Scotch-Brite® discs or tools which can otherwise be related to an abrasive disk-like element (2), to the free end (3) of a rotating shaft (4) of a grinder, which comprises: at least one threaded ring (9) for coupling to the free end (3) of the rotating shaft (4), an annular portion (10) of which is jointly associated with the disk-like element (2), the threaded ring (9) comprising a central threaded hole (12) and being designed to be arranged substantially coaxially with the disk-like element (2) and able to be associated with corresponding threaded means (13) provided on the free end (3) of the rotating shaft (4). The ventilating insert comprises means for deflecting at least one fluid for cooling the disk-like element (2) which are associated with the threaded ring (9) for propelling radially the cooling fluid from the central region to the peripheral region of the disk-like element (2) during the rotation thereof.

IPC 8 full level  
**B24B 45/00** (2006.01); **B24B 55/02** (2006.01); **B24D 5/10** (2006.01); **B24D 5/16** (2006.01); **B24D 7/10** (2006.01); **B24D 7/16** (2006.01); **B24D 13/18** (2006.01); **B24D 13/20** (2006.01)

CPC (source: EP)  
**B24B 45/00** (2013.01); **B24B 55/02** (2013.01); **B24D 5/10** (2013.01); **B24D 5/16** (2013.01); **B24D 7/10** (2013.01); **B24D 7/16** (2013.01); **B24D 13/18** (2013.01); **B24D 13/20** (2013.01)

Citation (applicant)  
IT 1361563 A

Citation (search report)  
• [XY] EP 1795304 A1 20070613 - FICAI GIOVANNI [IT]  
• [Y] FR 1260647 A 19610512

Cited by  
EP2671675A1; CN107199495A; US11685016B2; US9925644B2; EP3736088A1; WO2019222193A1; WO2014201087A1; EP3785850A1

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