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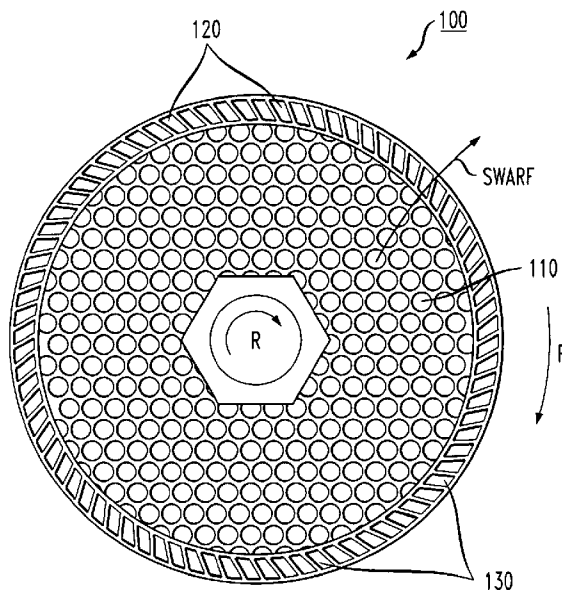
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(57) Abstract: An abrasive tool utilized to remove material from a workpiece is formed to comprise fluid-dynamically-designed features (apertures, airfoils) configured to efficiently remove abraded material and waste from the surface of the workpiece. An abrasive component (and/or backing plate) is formed to include fluid-dynamically- designed features that create an air flow stream/pressure differential which draws the created debris (variously referred to as "swarf", meaning in general any material removed by an abrading tool) away from the grinding surface.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - B24B 7/00 (2008.04) USPC - 451/73 According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) - B24B 7/00 (2008.04) USPC - 451/73, 120, 177, 259, 359, 527 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) PatBase and Google		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 7,244,170 B2 (WOO et al) 17 July 2007 (17.07.2007) entire document	1, 3-4 and 20
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Y		2, 5-19
Y	US 2,813,376 A (MIDDLEMARK) 19 November 1957 (19.11.1957) entire document	2
Y	US 3,259,959 A (TOBEY) 12 July 1966 (12.07.1966) entire document	5, 13-16, 18
Y	US 2007/0054601 A1 (BOTTEMA et al) 08 March 2007 (08.03.2007) entire document	6, 19
Y	US 6,575,821 B2 (JÖST) 10 June 2003 (10.06.2003) entire document	7
Y	WO 2007/093874 A1 (MARTON) 23 August 2007 (23.08.2007) entire document	8-9
Y	US 6,846,223 B2 (CONLEY et al) 25 January 2005 (25.01.2005) entire document	10-11
Y	US 6,508,697 B1 (BENNER et al) 21 January 2003 (21.01.2003) entire document	12-19
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