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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: B23C 5/00	A1	(11) International Publication Number: WO 97/23322 (43) International Publication Date: 3 July 1997 (03.07.97)
(21) International Application Number: PCT/US96/16935 (22) International Filing Date: 22 October 1996 (22.10.96) (30) Priority Data: 08/577,164 22 December 1995 (22.12.95) US (71) Applicant: KENNAMETAL INC. [US/US]; P.O. Box 231, Latrobe, PA 15650 (US). (72) Inventor: FELDSINE, Timothy, R.; 28 Edinburgh Place, Clayton, NC 27520 (US). (74) Agents: PORCELLI, James, G. et al.; Kennametal Inc., P.O. Box 231, Latrobe, PA 15650 (US).		(81) Designated States: AU, CA, CN, JP, KR, MX, RU, SG, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i>

(54) Title: HIGH SPEED ROTATING TOOL

(57) Abstract

A rotating tool (10) mateable with the spindle of a machine tool for high speed rotation is disclosed. The tool is comprised of a shank (12) and a disk (14). The disk (14) has attached to its periphery cutting inserts (20). These inserts (20) may be attached directly to recesses in the disk or to lugs (22) protruding from the disk (14). If the inserts are attached to lugs (22), then the disk (14) will further have opposing counterweight lugs (24) protruding from the disk (14) in an opposite direction. A band (34) of high tenacity material extends around the disk (14) to restrain radial expansion. Additionally, the disk (14) may be encompassed in a restraining material to restrain any disk parts that may separate from the disk body.

