

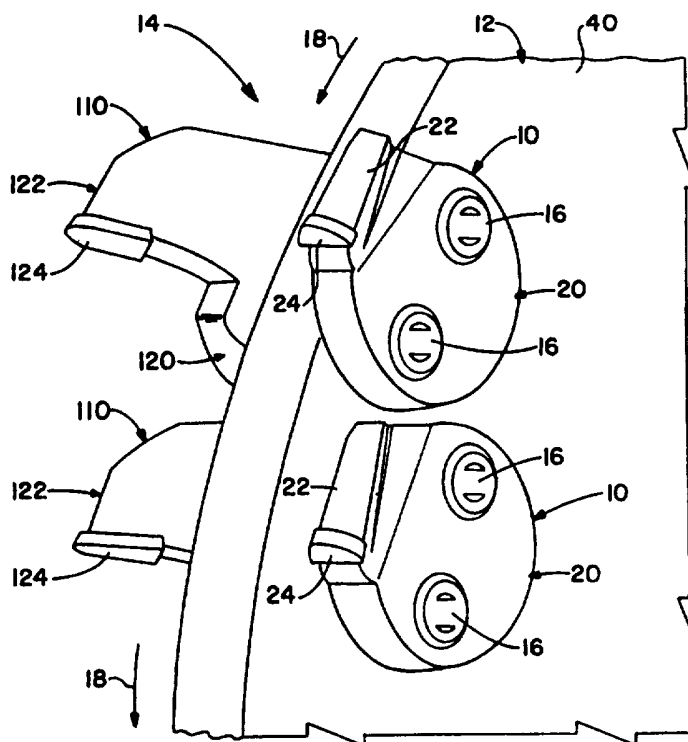


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(21) International Application Number: PCT/US95/11598 (22) International Filing Date: 14 September 1995 (14.09.95) (30) Priority Data: 08/306,571 15 September 1994 (15.09.94) US (71)(72) Applicant and Inventor: BOWLING, John, M. [US/US]; 9376 Lincoln Way East, Orville, OH 44667 (US). (74) Agents: HAAS, Steven, M. et al.; Oldham & Oldham Co., L.P.A., 1225 West Market Street, Akron, OH 44313-7188 (US).		(81) Designated States: AU, BR, CA, MX, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> (88) Date of publication of the international search report: 6 June 1996 (06.06.96)

(54) Title: CUTTING TOOTH**(57) Abstract**

A cutting tooth (10), (110) for use in a stump cutting apparatus wherein the cutting tooth (10), (110) comprises a mounting base (20), (120) and a head portion (22), (222) which are integral with one another and are made of a one-piece metallic forging. The forging is preferably made from AMS 4140 steel and the cutting tooth (10), (110) further comprises a cutting tip (24), (224), preferably of tungsten carbide, which is fixedly attached to the head portion of the tooth. The disclosed preferred embodiments include those in which the head portion (22), (222) is disposed in a substantially straight line relationship with the mounting base (20), (120) and those in which the head portion (22), (222) is curved relative to the mounting base. The disclosed embodiments of the cutting teeth are suitable for attachment in matched pairs to a vertical, rotatable disk (12), or cutting wheel of the stump cutting apparatus (14), with the head portions being curved relative to the corresponding base portions so as to curve away from the disk, or, alternatively, disposed in a substantially straight line relationship with the corresponding base portion.



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INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/US95/11598

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :B27G 13/00

US CL :144/241

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)

U.S. : 144/2.N, 218, 235, 240, 241; 241/291, 294; 299/91

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)

NONE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US, A, 4,974,649 (MANNING) 04 DECEMBER 1990, SEE FIG. 3	1-18
Y	US, A, 4,998,574 (BEACH, ET AL.) 12 MARCH 1991, SEE FIG. 3.	3-18
A	US, A, 5,005,622 (BEACH, ET AL.) 09 APRIL 1991, SEE FIGURE 1	1-18
X, Y	US, A, 5,135,035 (MILLS) 04 AUGUST 1992, SEE COL. 6, LINES 64-66	1, 2
A	US, A, 5,279,345 (LEMAUX ET AL.) 18 JANUARY 1994, SEE FIG. 1	1-18
A	US, A, 5,365,986 (HOOSER) 22 NOVEMBER 1994, SEE FIGURE 1	1-18

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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