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54 High velocity fluid abrasive jet.

57 In method and apparatus for producing a coherent stream of high velocity abrasive laden liquid, the method includes allowing particles of abrasive to assume the direction and velocity of a high velocity jet (22) of liquid. The method allows concentration of particles in the centre of the flow of liquid to reduce nozzle wear and increase cutting efficiency. The apparatus includes a nozzle (21) having a converging section (26, 27) attached to a straight section (28) that is sufficiently large that the abrasive particles approach the velocity of the fluid jet before leaving the exit (29) of the nozzle.

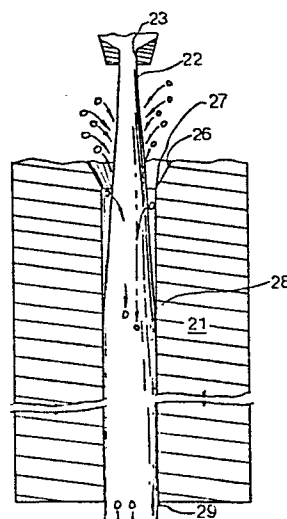


FIG. 4



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X	DE-A-2 928 698 (NATIONAL RESEARCH DEV.) * Claims; figure 1 *	1, 5, 7, 8, 14	B 24 C 5/04
X	DE-A-1 477 991 (VEB) * Whole document *	1, 5, 7- 15	
A	FR-A-2 369 008 (MYERS-EUROPE) * Page 1, line 23 - page 2, line 7 *	3, 4	
A	FR-A-2 348 751 (GOSUDARSTVENNY) * Page 4, line 11 - page 6, line 16 *	2, 6	
A	US-A-2 176 577 (TIRRELL) * Page 2, column 1, line 64 - column 2, line 70 *	1, 3-5	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)  B 24 C B 26 F
A	CH-A- 400 811 (CARPENTER) * Page 2, lines 20-30 *	3	
A	FR-A-1 203 550 (INSTITUT DE RECH. DE LA SIDERURGIE) * Abstract *	9, 10, 15	
A	US-A-3 994 097 (LAMB)  -/-		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 06-06-1985	Examiner ESCHBACH D.P.M.
<b>CATEGORY OF CITED DOCUMENTS</b>			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons  & : member of the same patent family, corresponding document	



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. <sup>3</sup> )
P, A	EP-A-0 069 875 (PEINIGER)		
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P, A	EP-A-0 090 691 (COMMISSARIAT A L'ENERGIE ATOMIQUE)		
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A	DE-A-2 724 318 (PEINIGER)		
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A	DE-C- 494 888 (GUTMANN)		
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			TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )
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P : intermediate document		& : member of the same patent family, corresponding document	