

12 **EUROPEAN PATENT APPLICATION**

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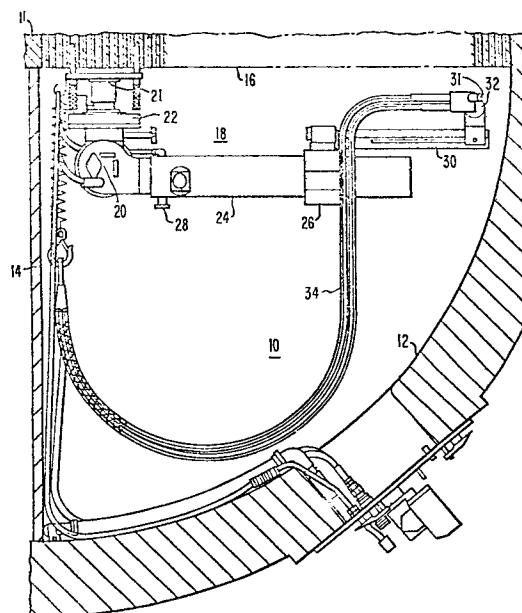
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54 **Apparatus for decontaminating nuclear steam generators.**

57 Manipulator apparatus for cleaning a nuclear steam generator by sweeping a spray nozzle (32) about a pivot mechanism (20, 22) inside a spherical plenum (10) of the steam generator. The nozzle directs a water-grit mixture toward the inside surface (12, 14, 16) of the plenum in order to abrasively remove contaminants from the inside surface. The apparatus uses microprocessors (147, 159) to compute appropriate control parameters in order to maintain constant tangential velocity of the nozzle in relation to the inside surface. The microprocessors also compute, in one of the three modes of operation, appropriate control parameters for maintaining a predetermined distance between the nozzle and the surface to be cleaned so as to provide adequate cleaning of the surface but no damage thereto.





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EUROPEAN SEARCH REPORT

0047047
Application number

EP 81 30 2377

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
E	<u>EP - A - 0 023 820</u> (WESTINGHOUSE) * claim 1; figure 2 * ---	1	G 21 F 9/00
	<u>EP - A - 0 004 275</u> (WESTINGHOUSE) * claim 1; figure 1 * ---	1	
	<u>US - A - 3 606 162</u> (LEHMANN) * claims 1 and 3 * -----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			G 21 F 9/00 F 22 B 37/00 B 25 J 5/00
			CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons
			&: member of the same patent family, corresponding document
The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	10.12.1981	NICOLAS	