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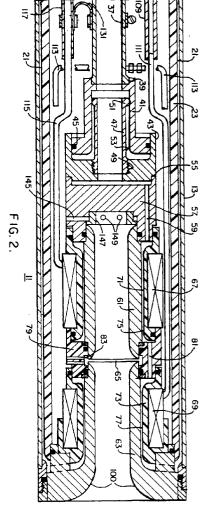
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(1) Applicant: WESTINGHOUSE ELECTRIC CORPORATION
Westinghouse Building Gateway Center Pittsburgh Pennsylvania 15222 (US)

(72) Inventor: Wolf, Charles Bernard 805 Willow Street Irwin, PA 15642 (US) Inventor: Taylor, Raymond Frances, Jr. 53 Barri Drive Irwin, PA 15642 (US)

(74) Representative : van Berlyn, Ronald Gilbert 23, Centre Heights London, NW3 6JG (GB)

- (54) Non-clogging high efficiency plasma torch.
- (57) An arc-heated plasma lance which is not exposed to clogging by superheat hydrocarbon gases is characterized by a shorter downward electrode and a generally shorter length of the upward and downward electrodes combination, with a flaring out electrode end at the outlet port for receiving the arc roots of the downward electrode, thereby to provide increased efficiency and generate radiant energy, as well as insuring non-clogging operation.





## **EUROPEAN SEARCH REPORT**

Application Number

91 30 5854 EP

A	US-A-4 668 853 (FEY ET AL.) * column 1, line 51 - column			APPLICATION (Int. Cl.5)	
	* figure 1B *	2, line 27 *	1	H05H1/34	
	US-A-4 099 958 (MACRAE ET AL. * column 3, line 28 - line 32 * column 4, line 19 - line 45 * figure 2 *	*	1,3		
A	US-A-3 307 011 (R.J. BAIRD)				
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				TECHNICAL FIELDS SEARCHED (Int. Cl.5)	
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CATEGORY OF CITED DOCUMENTS  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		E : earlier patent do after the filing d D : document cited i L : document cited f	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		