United States Patent [19]

Narita et al.

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[54]	TREATING METHOD	
[75]	Inventors:	Tomonori Narita, Tokyo; Kimihiro Matsuse, Yokohama, both of Japan
[73]	Assignee:	Tokyo Electron Limited, Tokyo, Japan
[21]	Appl. No.:	326,689
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[30]	Foreign Application Priority Data	
Mar. 25, 1988 [JP] Japan 63-72995		
-		C23C 14/34; C23C 16/00; C03C 15/00
[52]	U.S. Cl	
[58]	Field of Search	
[56]	References Cited	
U.S. PATENT DOCUMENTS		

3,573,190 3/1971 Bloom 204/298 MT

4,324,631 4/1982 Meckel et al. 204/298 MT 4,396,478 8/1983 Aizenshtein et al. 204/298 ET

4,172,020 10/1979

Tisone et al. 204/298 MT

FOREIGN PATENT DOCUMENTS

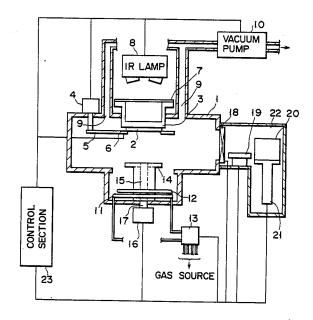
60-022635 2/1985 Japan . 63-65901 3/1988 Japan .

Primary Examiner—Nam X. Nguyen Attorney, Agent, or Firm—Oblon, Spivak, McClelland, Maier & Neustadt

[57] ABSTRACT

A workpiece treating method includes a temperature rise step in which first temperature control is performed and a treatment step in which second temperature control is performed and is adapted to treat a workpiece whose emissivity of infrared rays in the temperature rise step is different from that in the treatment step. In the temperature rise step, the temperature of the workpiece is detected by a non-contact type temperature detecting means so as to perform the first temperature control. In the treatment step, the temperature of the workpiece is detected by a contact type temperature detecting means so as to perform the second temperature control.

7 Claims, 4 Drawing Sheets





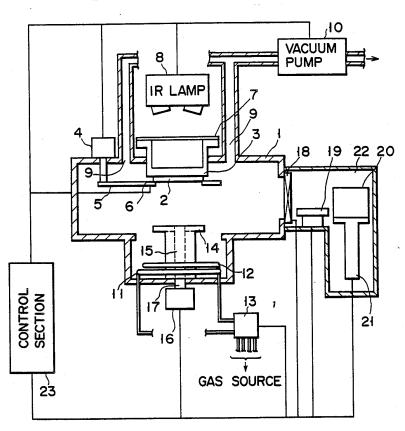
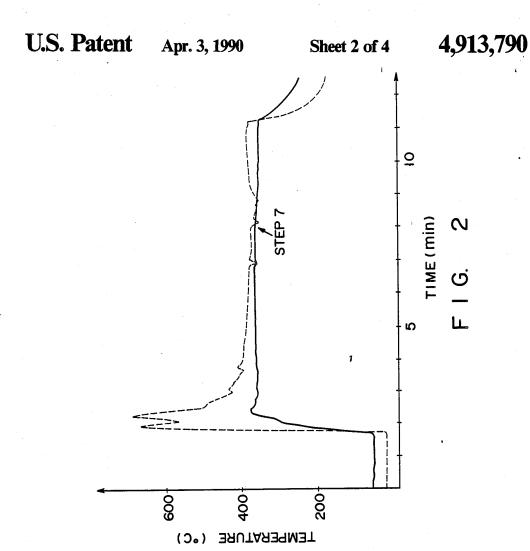
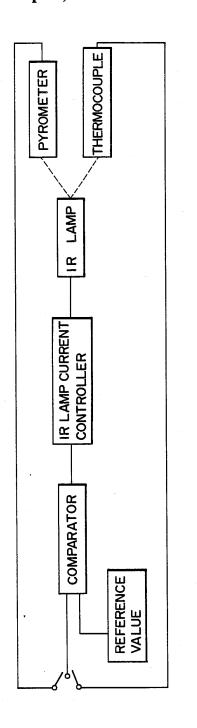


FIG. 1





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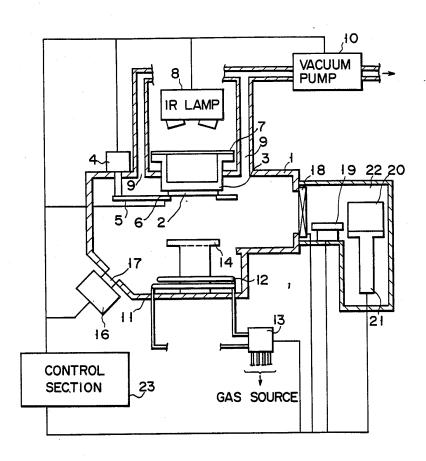


FIG.

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