



United States Patent [19]

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Flamm

[45] **Date of Patent:** **Jan. 25, 2000**

[54] **PROCESS DEPENDING ON PLASMA DISCHARGES SUSTAINED BY INDUCTIVE COUPLING**

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[76] Inventor: **Daniel L. Flamm**, 476 Green View Dr., Walnut Creek, Calif. 94596

[21] Appl. No.: **08/866,040**

[22] Filed: **May 30, 1997**

Related U.S. Application Data

[63] Continuation-in-part of application No. 08/736,315, Oct. 23, 1996, abandoned, which is a continuation of application No. 08/567,224, Dec. 4, 1995, abandoned.

[51] **Int. Cl.⁷** **H01L 21/00**

[52] **U.S. Cl.** **437/225; 437/228; 437/233; 156/643; 156/192.25; 204/192.32**

[58] **Field of Search** 118/50.1; 156/643, 156/345, 646, 659.1; 219/121.41, 121.44; 204/192.1, 192.12, 192.25; 427/12; 216/2; 437/225, 228, 233

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Attorney, Agent, or Firm—Townsend and Townsend and Crew LLP

[57] **ABSTRACT**

A process for fabricating a product **28, 119**. The process comprises the steps of subjecting a substrate to a composition of entities, at least one of the entities emanating from a species generated by a gaseous discharge excited by a high frequency field in which the vector sum of phase and anti-phase capacitive coupled voltages from the inductive coupling structure substantially balances.

7 Claims, 13 Drawing Sheets

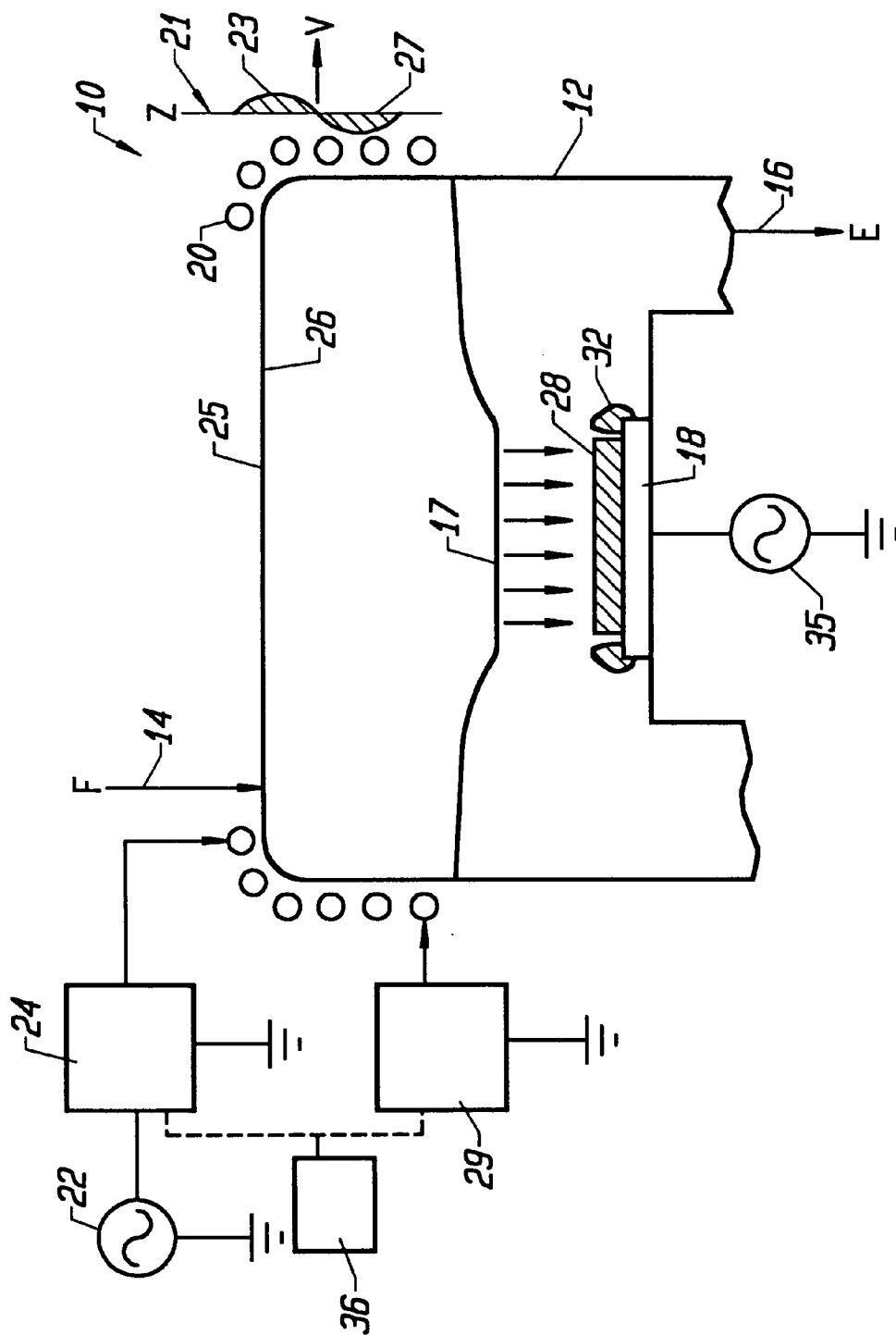


FIG. 1

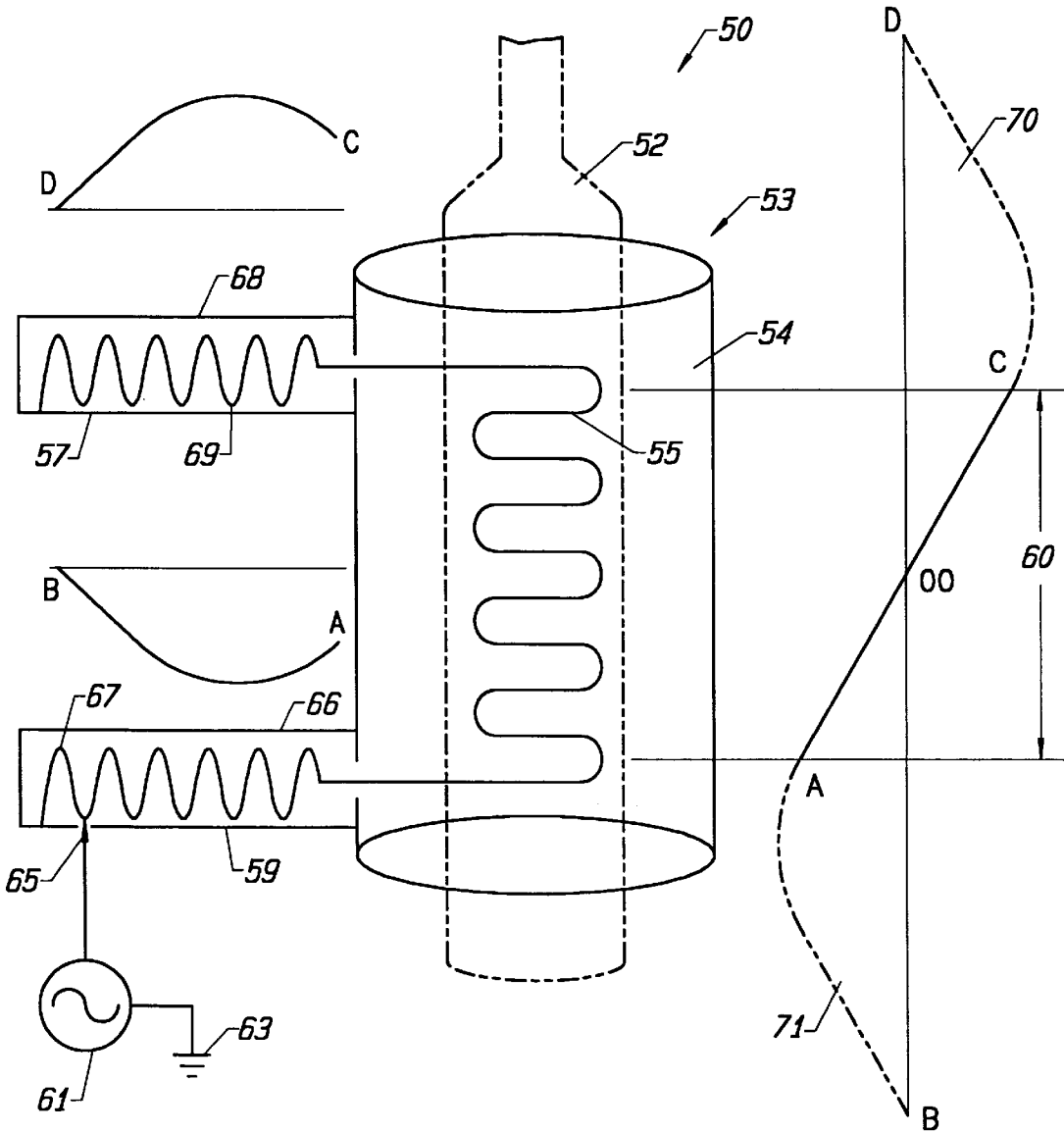


FIG. 2A

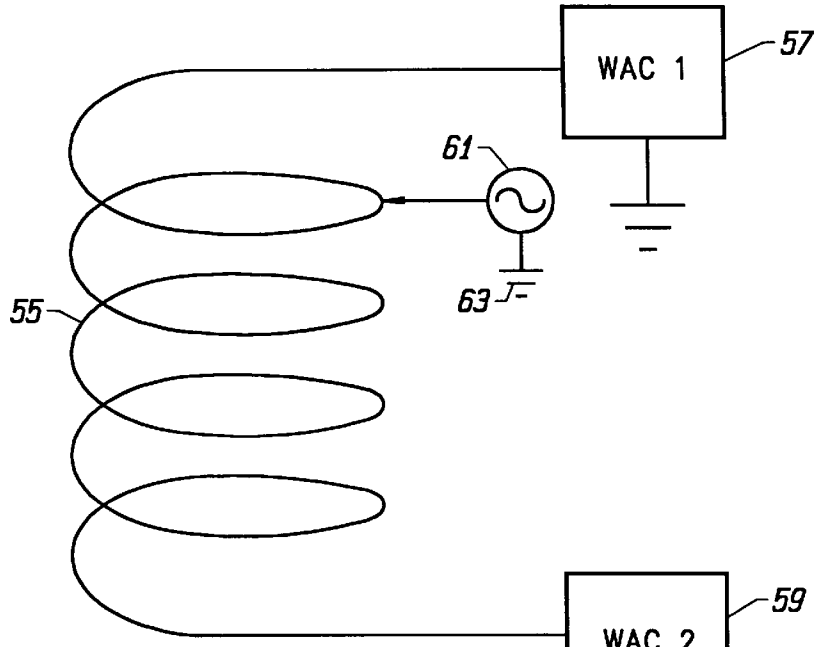


FIG. 2B

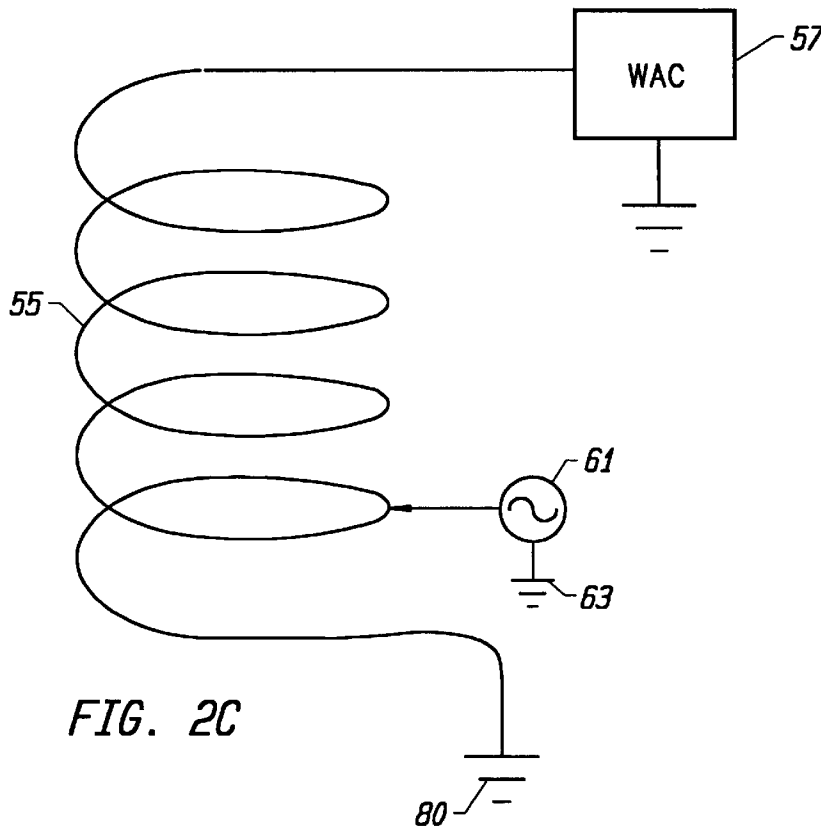


FIG. 2C

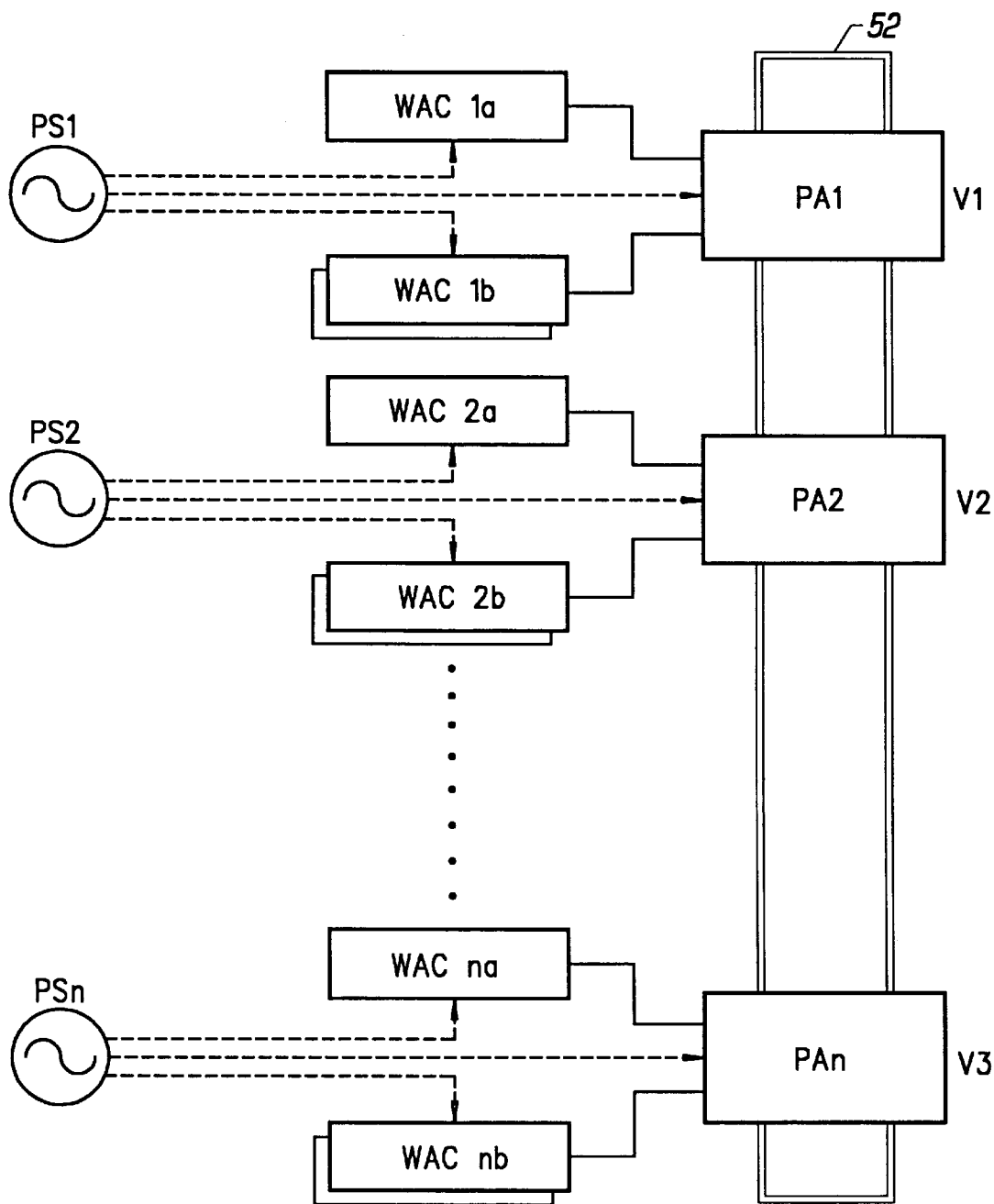


FIG. 2D

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