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(54) Title: A PROCESS FOR PRODUCING DIAMONDS

(57) Abstract: The invention discloses a process to produce diamonds by microwave plasma chemical vapor deposition (MPCVD). The process uses calibration gas comprising a mixture of 3% to 12% argon per unit of hydrogen, less than 1% oxygen per unit of hydrogen and less than 500 ppm nitrogen in a chamber having diamond seed(s) in an atmosphere of hydrogen plasma.



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