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(21) International Application Number: PCT/US00/11747 (22) International Filing Date: 1 May 2000 (01.05.00) (30) Priority Data: 09/305,731 5 May 1999 (05.05.99) US (71) Applicant: E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors: GELBLUM, Peter, Gideon; Apartment 7B33, 2401 Pennsylvania Avenue, Philadelphia, PA 19130 (US). BARNES, John, J.; 232 Sloan Court, Wilmington, DE 19808 (US). BLETSOS, Ioannis, V.; 1108 51st Street, Vienna, WV 26105 (US). HERRON, Norman; 408 Apple Road, Newark, DE 19711 (US). KIM, Tae, Hoon; 1604 Lindenwood Drive, Orange, TX 77630 (US). (74) Agent: STEVENSON, Robert, B.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).		(81) Designated States: BR, CA, CN, CZ, ID, JP, KR, MX, PL, SG, SK, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the</i> <i>claims and to be republished in the event of the receipt of</i> <i>amendments.</i>
(54) Title: PROCESS FOR THE NONDESTRUCTIVE HEATING AND SUPPLY OF HOT AMMONIA OR HOT AMMONIA CONTAINING FEED GAS (57) Abstract A process for nondestructive heating and supplying of ammonia feed gas wherein high quality ammonia (typically greater than 90 % and as high as 99 %) is preserved at temperatures well in excess of the conventional limit of 230 °C (typically from 400 to 700 °C) by controlling the selection of metal surfaces in contact with the hot gas, the bulk temperature of the gas, the wall temperature, the pressure, the contact time, and the spatial surface density. Such hot gases are particularly useful for the manufacture of hydrogen cyanide.		