

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 March 2001 (01.03.2001)

PCT

(10) International Publication Number
WO 01/14321 A1

- (51) International Patent Classification⁷: C07C 253/10 LA 70605 (US). MCKINNEY, Ronald, James; 1243 Lakewood Drive, Wilmington, DE 19803 (US). MORAN, Edward, Francis, Jr.; 20 Storrie Avenue, Gibbstown, NJ 08027 (US).
- (21) International Application Number: PCT/US00/19385
- (22) International Filing Date: 18 July 2000 (18.07.2000)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/383,898 26 August 1999 (26.08.1999) US
- (71) Applicant: E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US).
- (72) Inventors: CLARKSON, Lucy, Mary; 1041 Kaolin Road, Kennett Square, PA 19348 (US). HERRON, Norman; 408 Apple Road, Newark, DE 19711 (US). KALB, William, C.; 4608 E. Quail Hollow Lane, Lake Charles,
- (74) Agent: DEITCH, Gerald, E.; E.I. du Pont de Nemours and Company, Legal Patent Records Center, 1007 Market Street, Wilmington, DE 19898 (US).
- (81) Designated States (*national*): BR, CA, CN, ID, JP, KR, MX, SG.
- (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- Published:
— With international search report.
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 01/14321 A1

(54) Title: INSOLUBLE LEWIS ACID PROMOTERS FOR NICKEL-CATALYSED HYDROCYANATION OF MONOOLEFINS

(57) Abstract: An improved process for converting an acyclic monoolefin to its corresponding terminal organonitrile by reacting the monoolefin with hydrogen cyanide in the presence of zero-valent nickel, a phosphite ligand, and an insoluble Lewis acid promoter.