

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : C08G 69/00, 69/04, 69/28	A1	(11) International Publication Number: WO 00/37536 (43) International Publication Date: 29 June 2000 (29.06.00)
(21) International Application Number: PCT/US99/28240 (22) International Filing Date: 30 November 1999 (30.11.99) (30) Priority Data: 09/217,798 21 December 1998 (21.12.98) US (71) Applicant: E.I. DU PONT DE NEMOURS AND COMPANY [US/US]; 1007 Market Street, Wilmington, DE 19898 (US). (72) Inventors: HAYES, Richard, Allen; 6309 Milbrook Boulevard, Brentwood, TN 37027 (US). MARKS, David, Neil; 203 Walker Way, Newark, DE 19711 (US). VAN EIJNDHOVEN, Maria De Jesus; 3 Monferrato Court, Bear, DE 19701 (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, JP, KR, MX, SG, 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>
(54) Title: PROCESS FOR THE HYDROLYSIS OF ADIPONITRILE AND THE PRODUCTION OF NYLON 6,6 USING DICARBOXYLIC ACIDS AS THE SOLE CATALYST (57) Abstract A process for the hydrolysis of a dinitrile (e.g., adiponitrile) utilizing a dicarboxylic acid (e.g., adipic acid) as the sole catalyst followed by addition of a diamine (e.g., hexamethylenediamine) and heating to produce polymerization. Such a process is particularly useful in the production of nylon 6,6 having a low BHMT content and improved melt stability.		