

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C07D 213/06, 213/08, 213/14	A1	(11) International Publication Number: WO 99/33808 (43) International Publication Date: 8 July 1999 (08.07.99)
(21) International Application Number: PCT/US98/27197 (22) International Filing Date: 21 December 1998 (21.12.98) (30) Priority Data: 09/002,363 31 December 1997 (31.12.97) US (71) Applicant: MOBIL OIL CORPORATION [US/US]; 3225 Gallows Road, Fairfax, VA 22037 (US). (72) Inventors: CHESTER, Arthur, Warren; 517 Country Club Drive, Cherry Hill, NJ 08003 (US). HAN, Scott; 4 Valerie Lane, Lawrenceville, NJ 08648 (US). MAZZONE, Dominick, Nicholas; 10 North Monroe Avenue, Wenonah, NJ 08090 (US). VENKAT, Chaya, Rao; 35 Littlebrook Road North, Princeton, NJ 08540 (US). (74) Agents: ROBERTS, Peter, W. et al.; Mobil Oil Corporation, 3225 Gallows Road, Fairfax, VA 22037 (US).		(81) Designated States: AU, CA, CN, IN, JP, KR, 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: PYRIDINE/PICOLINE PRODUCTION PROCESS (57) Abstract A process for producing pyridine or picoline compounds, comprises the steps: a) reacting a reactant feedstream comprising ammonia and at least one C ₁₋₅ carbonyl reactant in the presence of a molecular sieve catalyst to produce a primary product stream comprising pyridine or picoline products and polyalkylpyridines; b) isolating from the primary product stream a product fraction comprising pyridine or picoline products, and a polyalkylpyridine fraction comprising polyalkylpyridines; and c) contacting the polyalkylpyridine fraction with a molecular sieve catalyst to produce a secondary product stream comprising pyridine or picoline products, preferably by recycling the polyalkylpyridine fraction back to step (a).		