



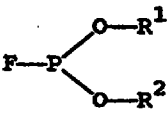
PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

200000760-9
1965 copy



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification⁶ : B01J 31/18, C07F 13/00, 15/00, C07C 45/50	A1	(11) International Publication Number: WO 99/13984 (43) International Publication Date: 25 March 1999 (25.03.99)
(21) International Application Number: PCT/US98/18240 (22) International Filing Date: 2 September 1998 (02.09.98) (30) Priority Data: 08/929,687 15 September 1997 (15.09.97) US (71) Applicant: EASTMAN CHEMICAL COMPANY [US/US]; 100 North Eastman Road, Kingsport, TN 37660 (US). (72) Inventors: PUCKETTE, Thomas, Allen; 306 Jamie Court, Longview, TX 75605 (US). STRUCK, Ginette, Elizabeth; 2007 Cumberland Drive, Longview, TX 75601 (US). (74) Agent: MARTIN, Charles, R.; P.O. Box 511, Kingsport, TN 37662-5075 (US).		(81) Designated States: BR, CN, ID, 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. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: HYDROFORMYLATION PROCESS USING NOVEL PHOSPHITE-METAL CATALYST SYSTEM		
 (I)		
(57) Abstract Disclosed are catalyst systems comprising one or more transition metals selected from the Group VIII metals and rhenium and one or more fluorophosphite compounds having general formula (I) wherein R¹ and R² are hydrocarbyl radicals. Also disclosed are catalyst solutions comprising one or more of the above fluorophosphite compounds, rhodium and a hydroformylation solvent, and hydroformylation processes wherein olefins are contacted with carbon monoxide, hydrogen and the catalyst solution to produce aldehydes.		