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(71) Applicant *(for all designated States except US)*: **BP CHEMICALS LIMITED** [GB/GB]; Britannic House, 1 Finsbury Circus, London EC2M 7BA (GB).

(72) Inventor; and

(75) Inventor/Applicant *(for US only)*: **WASS, Duncan, Frank** [GB/GB]; 42 Sherland Road, Twickenham, Middlesex, TW1 4HD (GB).

(74) Agent: **SMITH, Julian, Philip, Howard**; BP International Limited, Chertsey Road, Sunbury-on-Thames, Middlesex TW16 7LN (GB).

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WO 02/04119 A1

(54) **Title:** OLEFIN TRIMERISATION USING A CATALYST COMPRISING A SOURCE OF CHROMIUM, MOLYBDENUM OR TUNGSTEN AND A LIGAND CONTAINING AT LEAST ONE PHOSPHOROUS, ARSENIC OR ANTIMONY ATOM BOUND TO AT LEAST ONE (HETERO)HYDROCARBYL GROUP

(57) **Abstract:** A process for the trimerisation of olefins is disclosed, comprising contacting a monomeric olefin or mixture of olefins under trimerisation conditions with a catalyst which comprises (a) a source of chromium, molybdenum or tungsten (b) a ligand containing at least one phosphorus, arsenic or antimony atom bound to at least one hydrocarbyl or heterohydrocarbyl group having a polar substituent, but excluding the case where all such polar substituents are phosphane, arsane or stibana groups; and optionally (c) an activator.