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Amsterdam (NL). **VAN KEMPEN, Ronald** [NL/NL];
Badhuisweg 3, NL-1031 CM Amsterdam (NL).

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(71) Applicant (*for all designated States except US*): **SHELL
INTERNATIONALE RESEARCH MAATSCHAPPIJ
B.V.** [NL/NL]; Carel van Bylandtlaan 30, NL-2596 HR
The Hague (NL).

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(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **ELEVELD,
Michiel, Barend** [NL/NL]; Badhuisweg 3, NL-1031 CM
Amsterdam (NL). **GROTENBREG, Robert, Adrianus,
Wilhelmus** [NL/NL]; Badhuisweg 3, NL-1031 CM

(54) Title: PREPARATION OF A DOUBLE METAL CYANIDE CATALYST

(57) Abstract: The present invention relates to a process for the preparation of a double metal cyanide (DMC) catalyst, which process comprises: (a) combining an aqueous solution of a metal salt with an aqueous solution of a metal cyanide salt and reacting these solutions; and (b) recovering the DMC catalyst from the reaction mixture, in which process the DMC catalyst is prepared in the presence of from 0.03 to 0.4 mole of alkaline metal compound, based on amount of metal salt. Further, the present invention relates to DMC catalyst obtainable by such process, to DMC catalyst prepared from a metal salt and a metal cyanide salt in which the molar ratio of metal derived from the metal salt to metal derived from the metal cyanide salt is at least 2.25 and to a process for polymerization of alkylene oxides which process comprises reacting initiator with alkylene oxide in the presence of at most 15 ppm of DMC catalyst.



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