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(54) Title: POLYMERISATION OF HEXAFLUOROPROPYLENE OXIDE

(57) Abstract: Process for the oligomerization of hexafluoropropylene oxide (HFPO) in which the sum of the dimers, trimers, tetramers, pentamers and hexamers represents less than 20% of the weight of the polymerized HFPO, the oligomers other than the dimers, trimers, tetramers, pentamers and hexamers (the remaining oligomers) having an average molecular weight ranging between 1100 and 4000 g/mol, characterized in that the process comprises the steps of contacting hexafluoropropylene oxide (HFPO) at a temperature between -30°C to + 50°C with a catalyst system selected from potassium fluoride and di-, tri- or tetraethyleneglycol-dimethylether in the presence of a solvent which is selected from perfluorinated aliphatic or aromatic hydrocarbon with more than 3 and less than 12 C-atoms and optionally a polar group but not comprising chlorine or bromine partially fluorinated aliphatic or aromatic hydrocarbon with more than 3 and less than 12 C-atoms and optionally a polar group but not comprising chlorine or bromine at a pressure of less than 3 bars by controlled monomer addition continuous feeding or by adding the monomer in one or two portions (shots).



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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☒ See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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