Fluorinated greases having a low torque at low temperatures

Fluorinated greases comprising:
(A) from 1% to 50% by weight of a thickener;
(B) from 99% to 50% by weight of a mixture of:
(B1) from 0.1 to 100% by weight of a compound of structure:

\[
X_1 \cdot O \ (CF_2O)n \ (CF_2CF_2O)m \ (CF_2CF_2CF_2O)p \ (CF_2CF_2CF_2CF_2O)q \cdot X_2
\]  

wherein:

- \(X_1, X_2\) have formula \(-(CF_3)_z CF_3\) where \(z\) is an integer between 0 and 3; \(n\) is an integer between 1 and 200; \(m\) is an integer between 0 and 200; \(p, q\) are integers between 0 and 10; with the proviso that:
- \((p+q)/(p+q+m+n)\) \(\leq 0.05\);
- \(m/n \leq 0.7\);
- the number average molecular weight of (I) is between 1,000 and 10,000;
- the kinematic viscosity at 40°C is lower than 20 cSt; and

(B2) from 99.9% to 0% by weight of a perfluoropolyether oil having a kinematic viscosity at 40°C higher than 15 cSt and comprising repeating units of the type \((CFXO)\) wherein \(X\) is \(F\) or \(CF_3\); \(-CF_2CF_2O\), \(-C_F_3F_2O\), \(-CF(CF_3)CF_2O\), \(-CF_2CF(CF_3)O\), statistically distributed along the chain.
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<table>
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<tr>
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**TECHNICAL FIELDS SEARCHED (IPC)**

C10M

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The present search report has been drawn up for all claims.

**Place of search**

Munich

**Date of completion of the search**

19 July 2007

**Examiner**

Bertrand, Samuel
This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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For more details about this annex: see Official Journal of the European Patent Office, No. 12/82