

Title (en)

Power transmission fluids with improved friction characteristics

Title (de)

Kraftübertragungsflüssigkeiten mit verbesserten Ribungeigenschaften

Title (fr)

Fluides de transmission avec des caractéristiques de frottement améliorées

Publication

EP 1541665 A1 20050615 (EN)

Application

EP 04257486 A 20041201

Priority

US 73180003 A 20031209

Abstract (en)

Reaction products of maleic and/or succinic acids or anhydrides and primary aliphatic amines are disclosed as effective in reducing the static friction in power transmission fluids.

IPC 1-7

C10M 141/06; C10M 137/16; C10M 133/56

IPC 8 full level

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C10N 30/06 (2006.01); **C10N 40/04** (2006.01)

CPC (source: EP US)

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C10M 2215/26 (2013.01 - EP US); **C10M 2215/28** (2013.01 - EP US); **C10N 2030/06** (2013.01 - EP US); **C10N 2040/04** (2013.01 - EP US);
C10N 2040/042 (2020.05 - EP US); **C10N 2040/044** (2020.05 - EP US); **C10N 2040/046** (2020.05 - EP US)

C-Set (source: EP US)

C10M 2215/04 + **C10M 2207/123**

Citation (search report)

- [X] US 2669555 A 19540216 - GIAMMARIA JOHN J
- [X] US 2971910 A 19610214 - CALBOUN GEORGE M
- [X] US 6613722 B1 20030902 - WATTS RAYMOND F [US], et al
- [X] WO 9517490 A1 19950629 - EXXON CHEMICAL PATENTS INC [US]
- [X] EP 1233054 A1 20020821 - ETHYL CORP [US]

Citation (examination)

US 4396516 A 19830802 - KINOSHITA HIROTSUGU [JP], et al

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DOCDB simple family (publication)

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CN 103131522 A 20130605; CN 1637123 A 20050713; JP 2005171254 A 20050630; JP 4939747 B2 20120530; US 2005124507 A1 20050609

DOCDB simple family (application)

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CN 201210567592 A 20041209; JP 2004356843 A 20041209; US 73180003 A 20031209