

## Title (en)

Liquid compositions for refrigeration systems containing fatty amines, fatty amides, and reaction products of fatty acylating agents.

## Title (de)

Flüssige Zusammensetzungen für Kälteanlagen, welche Fettaminen, Amides von Fettsäuren oder Reaktionsprodukten mit Fettacylierungsmitteln enthalten.

## Title (fr)

Compositions liquides pour systèmes de réfrigération contenant des amines grasses, des amides d'acides gras ou produits de réaction avec des agents gras d'acylation.

## Publication

**EP 0612839 A1 19940831 (EN)**

## Application

**EP 94301146 A 19940217**

## Priority

US 1897693 A 19930218

## Abstract (en)

This invention relates to a liquid composition comprising (A) at least one fluorine-containing hydrocarbon containing 1 to 3 carbon atoms, (B) an efficiency improving or wear reducing amount of an additive selected from the group consisting of at least one fatty amine, at least one fatty amide, at least one reaction product of at least one fatty carboxylic acylating agent and at least one amine selected from the group consisting of a polyamine, a hydroxy amine and a mixture thereof, and at least one mixture thereof, and (C) an effective amount of a lubricant selected from the group consisting of at least one carboxylic ester, at least one polyalkylene glycol, at least one polycarbonate, and at least one mixture thereof. The liquid compositions containing the fatty amine, the fatty amide, the reaction product of a fatty carboxylic acylating agent have improved efficiency and antiwear properties. These compositions provide effective protection against wear, especially aluminum on steel wear. The compositions help prevent formation of metal debris during compressor operations.

## IPC 1-7

**C10M 169/04; C10M 171/00**

## IPC 8 full level

**C09K 5/04** (2006.01); **C10M 111/02** (2006.01); **C10M 111/04** (2006.01); **C10M 169/04** (2006.01); **C10M 171/00** (2006.01); **C10N 30/06** (2006.01); **C10N 40/30** (2006.01)

## CPC (source: EP KR)

**C10M 105/38** (2013.01 - EP); **C10M 105/40** (2013.01 - EP); **C10M 105/42** (2013.01 - EP); **C10M 105/48** (2013.01 - EP); **C10M 105/50** (2013.01 - KR); **C10M 107/32** (2013.01 - EP); **C10M 107/34** (2013.01 - EP); **C10M 133/06** (2013.01 - EP); **C10M 133/08** (2013.01 - EP); **C10M 133/16** (2013.01 - EP); **C10M 133/44** (2013.01 - EP); **C10M 135/36** (2013.01 - EP); **C10M 137/02** (2013.01 - EP); **C10M 137/04** (2013.01 - EP); **C10M 137/10** (2013.01 - EP); **C10M 137/12** (2013.01 - EP); **C10M 169/04** (2013.01 - EP); **C10M 171/008** (2013.01 - EP); **C10M 2207/281** (2013.01 - EP); **C10M 2207/282** (2013.01 - EP); **C10M 2207/283** (2013.01 - EP); **C10M 2207/2835** (2013.01 - EP); **C10M 2207/286** (2013.01 - EP); **C10M 2207/2875** (2013.01 - EP); **C10M 2207/2885** (2013.01 - EP); **C10M 2207/2895** (2013.01 - EP); **C10M 2207/301** (2013.01 - EP); **C10M 2207/32** (2013.01 - EP); **C10M 2207/325** (2013.01 - EP); **C10M 2209/1013** (2013.01 - EP); **C10M 2209/1023** (2013.01 - EP); **C10M 2209/1033** (2013.01 - EP); **C10M 2209/104** (2013.01 - EP); **C10M 2209/1045** (2013.01 - EP); **C10M 2209/105** (2013.01 - EP); **C10M 2209/1055** (2013.01 - EP); **C10M 2209/1065** (2013.01 - EP); **C10M 2209/1075** (2013.01 - EP); **C10M 2209/1085** (2013.01 - EP); **C10M 2209/1095** (2013.01 - EP); **C10M 2209/11** (2013.01 - EP); **C10M 2211/022** (2013.01 - EP); **C10M 2211/06** (2013.01 - EP); **C10M 2215/04** (2013.01 - EP); **C10M 2215/042** (2013.01 - EP); **C10M 2215/08** (2013.01 - EP); **C10M 2215/082** (2013.01 - EP); **C10M 2215/086** (2013.01 - EP); **C10M 2215/12** (2013.01 - EP); **C10M 2215/122** (2013.01 - EP); **C10M 2215/22** (2013.01 - EP); **C10M 2215/221** (2013.01 - EP); **C10M 2215/223** (2013.01 - EP); **C10M 2215/225** (2013.01 - EP); **C10M 2215/226** (2013.01 - EP); **C10M 2215/26** (2013.01 - EP); **C10M 2215/28** (2013.01 - EP); **C10M 2215/30** (2013.01 - EP); **C10M 2217/046** (2013.01 - EP); **C10M 2217/06** (2013.01 - EP); **C10M 2219/10** (2013.01 - EP); **C10M 2219/102** (2013.01 - EP); **C10M 2219/104** (2013.01 - EP); **C10M 2219/106** (2013.01 - EP); **C10M 2219/108** (2013.01 - EP); **C10M 2223/02** (2013.01 - EP); **C10M 2223/04** (2013.01 - EP); **C10M 2223/041** (2013.01 - EP); **C10M 2223/042** (2013.01 - EP); **C10M 2223/043** (2013.01 - EP); **C10M 2223/045** (2013.01 - EP); **C10M 2223/047** (2013.01 - EP); **C10M 2223/049** (2013.01 - EP); **C10M 2223/06** (2013.01 - EP); **C10M 2223/061** (2013.01 - EP); **C10M 2223/065** (2013.01 - EP); **C10M 2223/10** (2013.01 - EP); **C10N 2010/04** (2013.01 - EP); **C10N 2020/01** (2020.05 - EP); **C10N 2040/00** (2013.01 - EP); **C10N 2040/30** (2013.01 - EP); **C10N 2040/32** (2013.01 - EP); **C10N 2040/34** (2013.01 - EP); **C10N 2040/36** (2013.01 - EP); **C10N 2040/38** (2020.05 - EP); **C10N 2040/40** (2020.05 - EP); **C10N 2040/42** (2020.05 - EP); **C10N 2040/44** (2020.05 - EP); **C10N 2040/50** (2020.05 - EP)

## Citation (search report)

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Designated contracting state (EPC)  
BE DE ES FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0612839 A1 19940831**; AU 5510194 A 19940825; BR 9400270 A 19941101; CA 2115636 A1 19940819; JP H06248282 A 19940906; KR 940019845 A 19940915

DOCDB simple family (application)  
**EP 94301146 A 19940217**; AU 5510194 A 19940214; BR 9400270 A 19940208; CA 2115636 A 19940214; JP 1872094 A 19940215; KR 19940002819 A 19940217