

Title (en)

Lubricating agents for use in the production of carbon yarns.

Title (de)

Schmiermittel und deren Anwendung bei der Herstellung von Karbonfasern.

Title (fr)

Agents lubrifiants et leur utilisation dans la fabrication de fibres de carbone.

Publication

EP 0157499 A1 19851009 (EN)

Application

EP 85301397 A 19850228

Priority

JP 3954084 A 19840229

Abstract (en)

Lubricating agents for use in the production of carbon yarns comprise at least one amino polysiloxane of formula (I) <CHEM> (where X represents an alkylene group with 3 to 5 carbon atoms, Y represents an alkylene group with 2 to 6 carbon atoms or a phenylene group, R1 and R3 each represent a hydrogen atom, an alkyl group with 1 to 5 carbon atoms or a phenyl group, R2 and R4 each represent a methyl group or an ethyl group, R5, R6 and R7 each represent a hydrogen atom, a methyl group or an ethyl group, m is 1, n is an integer equal to or greater than 1 and p is 0 or an integer in the range of 1 to 5), as affective component, the nitrogen content of said effective component being 1 weight % or less. Such lubricating agents supply to the processed yarns superior filament separability and infusibility characteristics.

IPC 1-7

D01F 9/22; **D01F 9/14**

IPC 8 full level

D06M 15/643 (2006.01); **D01F 9/14** (2006.01); **D01F 9/145** (2006.01); **D01F 9/22** (2006.01); **D06M 13/02** (2006.01); **D06M 13/51** (2006.01); **D06M 13/513** (2006.01); **D06M 101/00** (2006.01); **D06M 101/40** (2006.01)

CPC (source: EP)

D01F 9/145 (2013.01); **D01F 9/22** (2013.01)

Citation (search report)

- [X] US 4080417 A 19780321 - KISHIMOTO SOICHIRO, et al
- [X] US 4009248 A 19770222 - KISHIMOTO SOICHIRO, et al
- [X] GB 2059407 A 19810423 - SUMITOMO CHEMICAL CO, et al
- [X] GB 2041901 A 19800917 - JAPAN EXLAN CO LTD, et al

Cited by

US5428089A; US5599778A; US7208642B2; EP0340475A3; EP0493766A1; US5286563A; FR2733987A1; EP0745649A1; US5733999A; US10040891B2; US9777105B2; US6515095B1; US6472468B1

Designated contracting state (EPC)

FR GB

DOCDB simple family (publication)

EP 0157499 A1 19851009; JP S60185879 A 19850921

DOCDB simple family (application)

EP 85301397 A 19850228; JP 3954084 A 19840229